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The Flora of Warwickshire.

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Only five hundred copies of this  
book have been printed.

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J. R. Bagnall.



THE FLORA OF WARWICKSHIRE.

An early worshipper at Nature's shrine,  
I loved her rudest scenes,—warrens and heaths,  
And yellow commons, and birch-shaded hollows,  
And hedgerows, bordering unfrequented lanes,  
Bowered with wild roses, and the clasping woodbine,  
Where purple tassels of the tangling vetch  
With bittersweet and bryony inweave,  
And the dew fills the silver bindweed's cups,—  
I loved to trace the brooks whose humid banks  
Nourish the harebell and the freckled pagil;  
And stroll among o'ershadowing woods of beech  
Lending in summer, from the heats of noon,  
A whispering shade; while haply there reclines  
Some pensive lover of uncultured flowers,  
Who, from the stumps with bright green mosses clad,  
Plucks the wood-sorrel with its light thin leaves,  
Heart-shaped and triply folded, and its root  
Creeping like beaded coral.

CHARLOTTE SMITH.

THE  
FLORA OF WARWICKSHIRE.

THE  
FLOWERING PLANTS, FERNS, MOSSES, & LICHENS,

BY  
JAMES E. BAGNALL,  
ASSOCIATE OF THE LINNEAN SOCIETY.

THE FUNGI  
(HYMENOMYCETES AND GASTROMYCETES),  
By W. B. GROVE, M.A., AND J. E. BAGNALL, A.L.S.

London :  
GURNEY & JACKSON, 1, PATERNOSTER ROW  
(Successors to Mr. VAN VOORST).

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## P R E F A C E.

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The first attempt at a complete Flora of Warwickshire was a series of papers written by me, and published in the "Midland Naturalist" during the years 1881 to 1885. In those papers the county was divided into two districts only, the Tame and the Avon. The present work is an amplification of those papers; but in this, the county is divided into ten districts, based on the river drainage; the distribution of the plants is more fully worked out, the nomenclature revised so as to be more in accordance with present-day views, the older writers (so far as my knowledge serves) are fully quoted, and the whole work has been recast and rewritten. Every endeavour has been made to make the present work complete and correct; but I am convinced that a critical examination will reveal many faults that have escaped my notice; and whilst I do not wish to exonerate those faults, I may here state that I have spared no pains to avoid them; that all my work, whether clerical or botanical, has been done in the scant leisure of a manufactory clerk; and that my knowledge of botany has been self-acquired.

It is with gratitude I here acknowledge much kindly help from many sources—help given considerably, courteously, and without stint.

To the late Rev. Andrew Bloxam, M.A., Professor C. C. Babington, M.A., F.R.S., and Mr. J. G. Baker, F.R.S., I am indebted for material help with those critical plants, the Rubi and Rosæ; to Dr. Braithwaite, F.L.S., for help, specimens, and encouragement with the Mosses; to Dr. M. C. Cooke, A.L.S., for much assistance with the Fungi; to Messrs. Henry and James Groves, F.L.S., for specimens and assistance with the Characæ; and to the late Rev. W. W. Newbould, M.A., for much valuable help and counsel. To him I owe all my records from the herbaria of Kew, the British Museum, and the private herbarium of Professor Babington. These records were given in the fullest and most thorough manner, and, what was the more gratifying, the task of copying them was a self-imposed one. I have also to thank Mr. G. Claridge Druce, M.A., for many notes from the Baxter Herbarium at Oxford. Help has also been received from Professor Haeckel, of St. Poelton; Dr. Christ, of Geneva; Arthur Bennett, F.L.S., W. H. Beeby, A.L.S., George Nicholson, A.L.S., Rev. W. Moyle Rogers, F.L.S., Rev. W. H. Purchas, Rev. Augustus Ley, M.A., T. R. Archer Briggs, F.L.S., Bolton King, M.A.; and

last, but not least, from my old friend, Henry Bromwich, of Milverton, an ardent and indefatigable botanist, the record of whose work will be found prominent in these pages.

The able account of the geology of the county I owe to my friend, A. Bernard Badger, B.A., of New College, Oxford, and Burdett-Coutts Scholar of that University; this was undertaken in the kindest manner, and has been written in the midst of very close and engrossing duties, and is an important addition to the work. I have also to record my warmest thanks to Mr. T. H. Goodwin Newton, M.A., F.R.Met.S., of Barrells Park, for his kindness in contributing a valuable and instructive note on the meteorology of the county.

I have also to thank my sincere friends, E. W. Badger, F.R.H.S. (Editor of the "Midland Naturalist"), and W. B. Grove, M.A., for their most valuable and unremitting assistance in reading and correcting all the proofs of this work, and generally seeing it through the press; to both these gentlemen I am deeply indebted, and acknowledge with gratitude that, to their kind scrutiny and constant care and attention, the work owes much of the literal accuracy which I am sanguine it will be found to possess.

I owe much to my printers, Messrs. Wright, Dain, Peyton, and Co., of the Herald Press, Birmingham, for the admirable manner in which they have printed this book, and for the readiness with which they have complied with my requirements.

It is a source of much pleasure to me, as well as a duty, to record my sincere thanks to the following gentlemen, who voluntarily guaranteed me from loss in the publication of my Flora; although (thanks to the generous support accorded to me) it has not been needful to trench upon their generosity, the feeling of security it imparted was gratifying and helpful. My guarantors were the Right Honble. Joseph Chamberlain, M.P., the Rev. A. R. Vardy, M.A., Dr. Lawson Tait, F.R.C.S., Prof. W. Hillhouse, M.A., and Messrs. R. W. Chase, Thomas Hooper, J. Jaffray, J.P., Wm. Mathews, M.A., A. Follett Osler, F.R.S., C. T. Parsons, J.P., J. B. Stone, J.P., F.L.S., and A. W. Wills, J.P. To the Council of the Birmingham Philosophical Society I am also greatly indebted for the vote of £10 from the Research Fund of that Society; and I gratefully thank my numerous subscribers, by whose kindly support I have been enabled to carry out the wish of my later years, in the publication of this Flora of my native county.

In conclusion, I beg to say I shall be glad to receive additional botanical records from any of my readers who may be in a position to supply them. All such records will be duly acknowledged, and given in the name of the sender in any future notes I may publish on the Flora of Warwickshire.

JAMES E. BAGNALL.

84, Witton Road, Aston, Birmingham,  
Nov. 29th, 1890.

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## INTRODUCTION.

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### TOPOGRAPHY.

Warwickshire, which lies between  $51^{\circ} 37' 30''$  and  $52^{\circ} 42'$  north latitude and  $1^{\circ} 7' 30''$  and  $1^{\circ} 56' 40''$  west longitude, is an inland county in central England. It is bounded on the east by Leicestershire and Northamptonshire, on the south-east by Oxfordshire, on the south-west by Gloucestershire, on the west by Worcestershire, and on the north-west by Staffordshire. It is met by the counties of Stafford, Derby, and Leicester at its north point; and at its south point is the Four-shire Stone, marking the union of Warwick, Gloucester, Oxford, and Worcester. It is of irregular form, tapering north and south. Its greatest length, from No Man's Heath, near Seckington, in the north, to Little Compton, in the south, is about fifty-five miles; its greatest breadth, from Inkford to the boundary line near Hill Morton, thirty-five miles; circumference 150 miles. Its area is 885 square miles, or 566,458 acres. It contains 4 hundreds, 2 cities, 1 county town, 10 market towns, and 209 parishes. Its population in 1881 was 737,339—males 337,146, females 380,193; and more than half its inhabitants, viz., 400,774, are within the city of Birmingham.

### ELEVATIONS.

The surface of Warwickshire is fairly diversified, and almost everywhere undulating and picturesque, but never grand or imposing. Its greatest elevations are mostly on the borders of the county. At Bright Hill, the southern boundary, the highest point is about 737ft. above sea level; running north-east of this a long ridge of high land forms the Oxfordshire boundary, and is at its highest point about 705ft. This forms a continuation of the Edge Hill range. The highest point on the Edge Hill is near Knowle End, about 760ft. The Avon Dassett (668ft.), Burton Dassett (710ft.), and Farnborough Hills (570ft.) are part of the same range. North-east of Wormleighton is the Northamptonshire boundary, formed by Marston Hill, 626ft., and Shuckburgh Hill, 570ft. The eastern boundary at Hill Morton attains an elevation of 403ft.; north-east at Watling Street, near Wolvey, we have 430ft.; north, above Austrey, on the Leicester boundary, 380ft.; and at the Staffordshire boundary, near Four Oaks, 565ft. The north-west boundary, in the Hagley Road, 607ft.; west, near Withall and Forshaw Heath, 527ft.; the Ridgeway, near Alcester and Coughton, 408ft.; and south-west, at Ilmington Downs, 855ft. Besides these are elevations at Oldbury Camp, near Atherstone, 558ft.; Corley, 625ft.; and in the south-west Brailes Hill, about 700ft. The lowest points are the river beds: these are given in greater detail further on, but in the Tame basin that near Ladies' Bridge, Tamworth, 180ft., and in the Avon at Stratford-on-Avon, 110ft., and near Salford Priors, about 80ft., are the lowest points.

## DRAINAGE, CLIMATE, SOILS, &amp;c.

With the exception of a small portion in the south-east, Warwickshire is drained by two principal rivers, the Tame and Avon; a ridge of high land, forming an irregular line from east to west, forming the chief watershed of the county. From near High Cross on Watling Street, the line of water-parting passes north of Monks Kirby and Shilton in a westerly direction. Near Barnacle Hall its strike becomes north-westerly through Bedworth and Arbury Park to near Astley. From this point it strikes somewhat abruptly south and south-west through Astley, forming the high land about Fillongley, Corley Moor, Berkswell, and Honiley. From near Honiley it takes a sinuous course north of Wroxall, Baddesley Clinton, and Lapworth, near Chalcot Wood, and north of Tanworth, to a point between Gorgot Hill and Bramstone Cross on the highway forming the county boundary. All waters north of this line fall into the Tame, and are part of the Trent basin, and (with the exception above mentioned) all waters south of this line fall into the Avon, forming part of the Severn basin. A small portion in the south-east drains into the Cherwell, and belongs to the Thames basin. These various waters are fully traced in treating of the botanical districts.

The insulated position of this county, and its freedom from any great irregularities of surface, render its climate mild, and vegetation early. The winds most prevalent are from the south-west, frequently accompanied with rain; but usually towards the middle of May easterly winds are felt.

The soils are fertile but varied, comprising nearly all but those containing chalk and flints. All the southern and south-eastern part of the county, separated from the rest by an imaginary line drawn from the border of Northamptonshire, near Willoughby, south-westward by Grandborough, Long Itchington, Southam, Harbury, Ashorne, Wellesbourne Hastings, to Atherstone-on-Stour, has nearly throughout a strong clay resting on limestone. A soil of a similar nature occupies the north-eastern extremity of the county, and may be separated from the rest by a line passing from Watling Street, near Nuneaton, by Oldbury and Kingsbury to the eastern boundary of the county by Tamworth. Over a large portion of the county, from near Warwick to the western boundary near The Portway, including Salford, Alcester, and Henley-in-Arden, are strong clay loams resting on marl and limestone. Westward of Warwick commences a considerable tract of strong clay on limestone, which extends south-westward to the confines of the county, Stratford-on-Avon being situated on the south-eastern side of it. The detached portions of it about Crimscote, Ilmington, &c., have a similar soil. About Shotswell, Warmington, Radway, Avon Dassett, and Farnborough, and along the Warwick Road as far as Gaydon, is a large extent of rich pastures; fine grazing land is also found stretching from Grandborough to near Dunchurch.

About Rugby and Grandborough are light, sandy soils, mixed with gravel. A similar soil extends from Meriden northward to the boundary of the county, chiefly in the valleys of the Blythe and Tame, such as much of the country around Coleshill Heath and Sutton Coldfield. The remaining extensive portions of the county consist chiefly of a red sandy loam and a red clay loam, resting on freestone or limestone, and sometimes on a sharp gravel. Coventry is also surrounded by a rich, deep sandy loam, resting on marl and freestone. About Castle Bromwich, a good red, clayey loam prevails, extending eastward to Coleshill, and westward to Birmingham. The extent of unenclosed land is very inconsiderable, the only extensive commons being those of Sutton Coldfield and Yarningale.

Whilst Warwickshire is well wooded, and, in some parts, still retains remnants of the old Forest of Arden, the woods are usually small; but fine woods are still existing, such as those about Long Compton, Wolford, Chesterton, Oversley, Ragley, Wootton Waven, Baddesley Clinton, Stoneleigh, Princethorpe, Meriden, Hartshill, and Corley; and the grand old parks of Stoneleigh and Packington are rich in forest trees of great size and age.

The following table shows the acreage under each crop in the county of Warwick, as taken from the agricultural returns for 1887 and 1888:—

Total land and water, 566,458 acres. Total under all crops and bare fallow, 1887, 496,429 acres; 1888, 496,892 acres.

CORN CROPS.			
	1887.		1888.
Wheat .....	48,726	....	50,472
Barley .....	16,290	....	14,612
Oats .....	21,297	....	23,031
Rye .....	258	....	443
Beans .....	14,050	....	12,516
Peas .....	4,418	....	4,949
Total Corn Crops .....	105,039		106,023
GREEN CROPS.			
Potatoes .....	4,936	....	5,365
Turnips and Swedes .....	16,913	....	16,142
Mangolds .....	4,198	....	4,127
Carrots .....	114	....	120
Cabbage .....	971	....	1,025
Vetches .....	4,279	....	4,731
Total Green Crops .....	31,411		31,510
For Hay .....	27,040	....	26,517
Clover, Sanfoin, and Grass under rotation .....	13,743	....	12,085
Total .....	49,783		38,602
Permanent Pasture not broken up	308,689	....	311,955
Flax .....	14	....	1
Bare fallow .....	10,493	....	8,161
Woods and Coppices 1887, 16,659.			

## GEOLOGY.

The following account of the Geology of Warwickshire makes no pretence to completeness; it deals simply with those principal features of the stratigraphy of the county about which the Botanist is likely to desire information, and does not enter into that detail which alone satisfies the craving for facts of the Geologist.

The Geological formations found in Warwickshire are as follows:—

### POST-TERTIARY ROCKS.

			Post-Glacial.
MESOZOIC ROCKS.			Glacial.
Oolitic	..	..	Inferior Oolite.
Liassic	..	..	{ Upper.
			{ Middle.
			{ Lower.
Rhætic	..	..	Marls and White Lias.
			Keuper.
			New Red Marl and Upper Keuper Sandstone.
			Lower Keuper Sandstone.
Triassic	!..	..	Bunter.
			Upper Red and Mottled Sandstone.
			Pebble Beds.
			Lower Mottled Sandstone (?).

**PALÆOZOIC ROCKS.**

<b>Permian</b>	.. ..	Sandstones and Calcareous Breccia.
<b>Carboniferous</b>	.. ..	{ Upper Coal Measures.
		{ Lower Coal Measures.
<b>Cambrian</b>	.. ..	{ Stockingford Shales.
		{ Hartshill Quartzite.
<b>Fundamental</b>	.. ..	Caldecote Volcanic Series.

**General Geological Features.**—The dominant geological formation of Warwickshire is the Trias, which extends over a large part of the county. To the east and south of the Fosse-way, the Lias is found; two outliers of which also occur more to the west—near Knowle and Wootton Wawen. The beds of the Trias are nowhere very steeply inclined, but there is a distinct anti-clinal running in a general north and south direction through Nuneaton. The crest of this arch is denuded in a region extending from Shuttington on the north through Dosthill, Maxstoke, and Berkswell on the west, to Ashow on the south, and Coventry, Nuneaton, and Merevale on the east; and, in consequence, rocks much older than the Triassic, belonging to the Permian, Carboniferous, and Cambrian formations, are now exposed.

**Fundamental Crystalline Rocks.**—**CALDECOTE VOLCANIC GROUP** (Lapworth).—The oldest rocks found in Warwickshire occur in the park of Caldecote Hill, rising from beneath the quartzite (Upper Cambrian), on the north-east side of the range of low hills which this rock forms between Nuneaton and Hartshill. They consist of a finely laminated rock, probably a tuff, with intrusions of diabase and quartz-porphry. They have a dip of  $25^{\circ}$  to  $30^{\circ}$  to the south-west. These rocks are equivalent probably to the igneous series of Charnwood Forest. They may be of Archæan age, and are certainly older than the Upper Cambrians, which overlies them, as the lowest bed of the latter—the Hartshill Quartzite—is in part composed of their fragments.

**Cambrian.**—Near the north-east limit of the county is a ridge of high ground about nine and a half miles long by one broad, running from north-west to south-east, and extending from Merevale through Nuneaton to Bedworth. The rocks composing this ridge consist of quartzites and thin-bedded shales, pierced by dykes of diorite. They were formerly mapped as altered Millstone Grit and Carboniferous Shales respectively, but the fossils present in the shales conclusively prove them to be of Cambrian age.

The complete succession is as follows :—

<b>STOCKINGFORD SHALES</b>	{ Upper Division—grey and black.
	{ Lower Division—purple and green.
<b>HARTSHILL QUARTZITE.</b>	

**THE HARTSHILL QUARTZITE** extends from Nuneaton to a point half-a-mile north of Hartshill: it is usually purplish in colour, but often grey or even white, and has a steady dip to the south-west of from  $25^{\circ}$  to  $40^{\circ}$ . The base is a coarse, stratified conglomerate or breccia, containing fragments of the underlying Caldecote series. This passes into a grit, and finally into an intensely hard, fine-grained rock, composed of quartz-grains so closely cemented together by silica as to have almost lost individuality. The rock is well bedded, and contains bands of sandy shales: it is traversed by sheets of intrusive coarse-grained diorite. The quartzite is much quarried for road-metal.

**THE STOCKINGFORD SHALES.**—These extend from Bedworth to Waste Hill, which is a mile and a half north of Atherstone. They are divisible into two perfectly conformable sub-divisions, the lower of which rests conformably on the quartzite. The shales are fine-grained and laminated, and contain only a few harder and more micaceous bands.

The Lower Division is purple or green in colour, and contains *Obolella Salteri*, *Lingulella lepis*, *Lingulella pygmaea*, *Protospongia*, &c.

The Upper Division is grey or black, with *Agnostus pisiformis*, *Beyrichia Angelini*, *Sphaerophthalmus alatus*, *Dictyonema*, &c.

The contained fossils indicate that the Stockingford shales are equivalent to the uppermost beds of the Lingula Flags, and possibly to a portion of the Lower Tremadoc series.

These beds are pierced by numerous sheets of diorite, which frequently follow the bedding-planes, and have much the appearance of contemporaneous lava-flows. They are proved, however, to be intrusive by the facts that the shales are altered both above and below, and that in places the diorite is seen cutting across the beds of sedimentary rock.

At Dosthill, on the western side of the coalfield, there is a small patch of shales pierced by intrusive diorite. Though the former have furnished annelid-burrows only, there can be but little doubt but that they are of the same age as the Stockingford beds.

**Carboniferous.**—Overlying the Stockingford shales is a series of rocks belonging to the Upper Division of the Carboniferous system, or Coal Measures. They extend from a point a little north of Shuttington, south-east to Hawksbury, a distance of about fifteen miles. From its southern extremity to Baddesley Ensor the coalfield has an average width of rather less than a mile and a half; north of this point it widens out suddenly into an irregular trapezoid four miles in width, reaching to Dosthill on the west. The area of the coalfield is about 30 square miles.

On its north-east side the coalfield is bounded by a fault, having a down-throw in that direction at the most northerly point of about 1,000 feet. It commences near Shuttington, and runs in a south-easterly direction to Merevale, and brings down the Permian Sandstone, Bunter Conglomerate, and Lower Keuper Sandstone against the Coal Measures. South of Merevale, the latter crop out unconformably to the Upper Cambrian rocks, which lie to the east, and in their further extension southward are covered unconformably by the Lower Keuper Sandstone.

The trapezoidal part of the coalfield mentioned above is bounded to the north-west by one fault, and to the west by a second: the former brings down the Keuper Sandstone, the latter the Keuper Marl, against the Coal Measures.

To the south and south-east the coalfield is limited by the out-crop of the Permian beds, which are generally conformable to the underlying Carboniferous rocks.

The Coal Measures are between 600 and 700 feet thick, and consist of alternating beds of sandstone, shale, indurated clays, and beds of coal, with one well-marked bed of limestone in the upper part of the series, about 50 feet below the base of the Permian strata. Of these, the limestone and coals are the most constant over the whole field, the other strata, especially the sandstones, being very variable in thickness. They form a kind of synclinal trough.

The actual base of the measures is formed in some cases of a conglomeratic sandstone; in other cases the coal-seams appear to rest directly on the Cambrian rocks. In places the dip of the sandstone and coal-seams is almost the same as that of the underlying shales, and, indeed, early observers considered that the two series were quite conformable, but more recent investigations have clearly shown that this is not the case, and there really is unconformability, which at times is very considerable in amount.

The workable seams of coal are five in number, one being double, and divided by a thin bed of fire-clay only. The intermediate sandstone beds which separate the various seams differ greatly in thickness, and thin away to the southward. Thus, in the northern part of the coal-field, in the neighbourhood of Tamworth, Polesworth, and Baddesley, the different coal-seams are widely separated, but in the southern region the whole of the coals come together, and practically form one thick seam, with thin partings of fire-clay.

In the narrower part of the coal-field, from Bedworth to Baddesley Ensor, only the eastern out-crops of the coal-seams are seen; but in the wider northern part the seams come again to the surface in the west, near Dosthill.

In the higher part of these coal measures there occurs a thin bed of limestone at a position about 50 feet beneath the lowest Permian rocks. It is generally from two to three feet thick, and contains the small serpulæ, *Spirorbis carbonarius*. Its out-crop generally follows the boundary of the Permian rocks and Coal Measures. It also occurs in a small outlier of Coal Measures brought up by a fault at Arley, about half way between Nuneaton and Coleshill.

**Permian.**—The main mass of Permian rocks occupies an area of about 90 square miles, extending from Baddesley Ensor on the north to within a few miles of Leamington and Warwick on the south; the greatest breadth is from Coventry on the east to Berkswell on the west. On the north and north-east these rocks are bounded by Coal Measures, which they cover apparently conformably; to the east and south they are covered unconformably by the Keuper Sandstone; to the west they are brought against the Keuper Marl and Sandstone by two faults, the one being a continuation of the west boundary fault of the coal-field, and the other ranging parallel to the former, and lying a little to the west of Kenilworth.

The country occupied by these rocks presents an undulating surface, with bold hills, rising at Corley Moor to an elevation of 625 feet above sea-level.

There is also a small patch of Permian rocks, north of Polesworth, brought down against the Coal Measures by the eastern boundary fault of the coal-field, and there is a small outlier in the midst of the coal-field at Wilnecote.

In the northern and central parts of the coal-field the overlying Permians seem to be conformable to the Upper Coal Measures, but the outlier just mentioned rests on the Lower Measures, the *Spirorbis* limestone being absent. As, then, here certainly the Permian are really unconformable to the Carboniferous rocks, it seems probable that the conformity of the two series further south is purely accidental.

The thickness of the Warwickshire Permian beds is about 2,000 feet, and they dip to the south-west. They consist of alternations of pale red, brown, and purple sandstones; red marl, and beds of calcareous breccia and conglomerate. The latter generally occur in the lower part of the formation, and sometimes exist in continuous beds; they are sometimes so calcareous as to form an impure limestone, and contain pebbles derived from older rocks, some like Upper Llandovery Sandstone, others fragments of Carboniferous Limestone. The higher beds are marls and sandstones.

Fossils occur very rarely in these beds; fragments of *Lepidodendron*, *Calamites*, *Caulerpites*, and *Breua*, internal casts of a brachiopod allied to *Strophalosia*, and remains of Labyrinthodonts have been found.

**Triassic.**—A large part of Warwickshire north of the Avon, together with a narrow strip to the south of it, is covered by these rocks. They are, however, neither as thick nor as completely developed as in Cheshire: in that county the Keuper beds are some 3,400 feet thick, and the Bunter 1,500 feet, while in Warwickshire they are respectively 850 and 100 feet. The uppermost member of the formation, the New Red Marl, has the largest exposure, the Bunter beds existing only in patches and narrow belts. The scenery of the district covered by the Triassic rocks is undulating and well wooded.

The Triassic rocks are unconformable to all rocks below them, and to the east of the coal-field seem to rest directly on rocks older than the Carboniferous.

**THE BUNTER DIVISION.**—The Bunter beds are nearly 600 feet thick at Birmingham, but thin away rapidly towards the east, till at the south end of the Warwickshire coal-field they entirely disappear, and the Keuper beds rest directly on the Carboniferous and Permian strata.

**LOWER BUNTER SANDSTONE.**—These beds are present at Barr Beacon, in Staffordshire, where they have a dip of about 15° to the south-east. It seems probable that they form a gentle syncline beneath Sutton Park, and that much of the strip of rocks marked as Upper Bunter Sandstone on the Survey maps, will prove to be these Lower Sandstones brought up to the surface by the synclinal curve. For details see "The Barr Beacon Beds," by J. Landon, Proc. Birmingham Phil Soc., 1889-90, p. 113.

**THE CONGLOMERATE OR PEBBLE-BED.**—These rocks are exposed (1) near Polesworth, immediately east of the boundary fault of the coal-field ; to the east they are faulted against the Lower Keuper Sandstone. (2) Near Birmingham and Sutton Coldfield.

The conglomerate consists of pebbles of quartz, carboniferous limestone and chert, Millstone Grit, and other rocks, all very much rounded and waterworn. They are generally cemented together in a sandy matrix. No contemporaneous fossils are present, but within the pebbles themselves are many remains which indicate their geological age, and show them to have been derived from Ordovician, Silurian, Devonian, and Carboniferous rocks. The exact places of derivation, however, have not been satisfactorily determined, and this is especially the case with regard to Ordovician and Devonian pebbles, which are of the type of these systems as developed in Brittany, and exhibited in England in the Budleigh-Salterton Pebbles in the Trias of Devon.

**UPPER RED AND MOTTLED SANDSTONE** is found at Edgbaston, Aston, Erdington, and Sutton Coldfield ; it is not present at Polesworth, where the conglomerate is immediately covered by the Lower Keuper Sandstone. It is soft and red, without any pebbles, and contains layers of yellow and white sandstone.

**KEUPER DIVISION.—LOWER KEUPER SANDSTONE OR WATERSTONES.**—These rocks come to the surface in two districts :—(1.) On the western boundary of the county, running to a narrow strip of half a mile in width through Birmingham and Aston to Sutton Coldfield, with a general dip to the east of five degrees ; to the west they crop out above the Bunter beds ; to the east they are faulted against the Keuper Marls, to the north-west against the Bunter Conglomerate. (2.) The Waterstones are also found forming a belt (which is broken in a few places) round the Carboniferous and Permian area of East Warwickshire ; wherever prevented from appearing it is owing to the existence of faults, which bring down the Red Marl against the older formations. Thus, this belt of sandstone is found running from Fazeley through Tamworth, Stockington and Shuttington to Merevale, being faulted against the coal measures ; from Merevale to Nuneaton the Red Marl is faulted against the Cambrian rocks, and the Lower Sandstone is not seen ; but from this last point it runs in a continuous belt of a mile or two in width through Coventry to Leamington and Warwick, where it is limited to the west by a north and south fault which brings it against the Red Marl, and to the east by the outcrop of the same beds. It is seen again near Berkswell, whence it runs to Maxstoke, being faulted to the east against the Permian beds, and limited to the west by the outcrop of the Red Marl. These rocks consist of white, red, and brown sandstones, with thin bands of interstratified red and mottled marls. In the neighbourhood of Warwick, footprints and remains of Labyrinthodonts have been found.

**RED MARL AND UPPER KEUPER SANDSTONE.**—This, the uppermost division of the Triassic series, extends from near the western border of Warwickshire, where it is bounded by the lower beds of the series, which rise from beneath it, right across to the Carboniferous and Permian area, east of which it reaches to the eastern confines of the county. From Fazeley to Maxstoke it is faulted in a north and south line against the Coal Measures and Permians, and also against the latter for some distance north and south of Kenilworth. Along a line running in a north-east to south-west direction from Willey, through Stretton-on-Dunsmore to Moreton Morrell and Bath Hill, it is bounded by the Lias, which also limits it to the south by an irregular out-crop, including Stratford, Whitechurch, Aston Cantlow, Wixford, and Bidford.

These beds attain in this district a maximum thickness of about 600ft., and consists principally of red and mottled marls. In the upper part there occurs irregularly a band of sandstone and green marl—the Upper Keuper Sandstone. It is never more than from 25ft. to 30ft. thick, and is best seen at Preston Bagot, Rowington, &c.

Salt is not found in the New Red Marl of Warwickshire as it is in that of Worcestershire ; and gypsum, although commonly present in thin bands, is not found in sufficient quantity for profitable extraction.

**Rhætic.**—The Triassic strata pass conformably up into 10 or 15 feet of black shales, above which come 30 or 40 feet of light and dark coloured marls, with nodular bands of limestone containing the usual Rhætic fossils, and a stratum of yellow micaceous sandstone full of casts of *Schizodus cloacinus*. These strata are of undoubted Rhætic age, although the characteristic bone-bed is not exposed. They are best seen at the base of the Lias outliers near Knowle and Wootton Wawen. They are also exposed in the south-west corner of the county near Alcester, and in the railway cutting at Harbury.

These Rhætic beds pass upwards into hard, fine-grained limestones, known as *White Lias*, the exact age of which is a matter of dispute. They occupy a considerable area to the south and south-east of Warwick.

**Liassic.**—This formation crops out above the Trias in the southern and south-eastern parts of the county, the outcrop which runs in a north-easterly direction being much indented, and forming the southern and eastern boundary of the Triassic rocks as described above. Outliers occur at Copt Heath, near Knowle, and at Wootton Wawen.

**THE LOWER LIAS.**—The rocks of this division are found spreading over the county to the north-east, south-east, south and south-west of Warwick. They consist of blue clays and shales, interstratified with beds of blue, rubbly, and argillaceous limestone, and attain a thickness of 700 feet near Rugby. The two outliers mentioned above are composed of Lower Lias.

**THE MIDDLE LIAS OR MARLSTONE.**—These beds form the range of hills on the south-eastern border of the county, of which Edge Hill is the highest member, and thence strike southwards into Oxfordshire.

The lower beds are clays and marls; the highest, or marlstone, forms good building stone, being of a hard, marly nature, more or less indurated, of a green or yellow-brown colour, and sometimes ferruginous.

**THE UPPER LIAS** occurs on the hills above Fenny Compton, near Brailes, and at a few other places in the neighbourhood forming the slopes of the Oolitic escarpment.

It is represented by a soft blue clay, sometimes shaly, and containing concretionary beds.

**Oolitic.**—On the Burton Dassett Hills near Kineton there is a small patch of the Inferior Oolite. It is about 30 feet thick, and rests directly on the Upper Lias clay.

**Post-Tertiary.**—The Tertiary formation is not represented in Warwickshire, but deposits of later age are found in all parts of the county, and in many places hide the formations which have been described above. Their general similarity to the prevailing Triassic beds produces a uniformity in the flora to which reference has already been made; for instance, very few characteristic limestone plants occur in the regions where the composition of the underlying rocks would lead us to expect their presence.

The complete succession of the Post-Tertiary deposits is as follows:—

Post-Glacial Clays, Sands and Gravels.

Glacial Beds.

Upper Boulder Clays.

Middle Glacial Clays, Sands and Gravels.

Lower Boulder Clays.

The *Boulder Clays* contain erratic blocks in greater or less number. The *Middle Glacial Beds* are generally found wherever there is undulating ground. In the *Post-Glacial Beds* there have been discovered remains of Rhinoceros, Mammoth, and other animals now extinct.

## MAPS OF WARWICKSHIRE.—Published by H.M. Geological Survey:—

Quarter-sheet, 44, N.E.	
„ 45, N.W.	
„ 53, N.W. ; 53, S.W. ; 53, N.E. ; 53, S.E.	
„ 54, N.W. ; 54, S.W. ; 54, N.E. ; 54, S.E.	
„ 62, N.E. ; 62, S.E. ; 62, S.W.	
„ 63, N.W. ; 63, S.W. ; 63, S.E.	

## METEOROLOGY.

In the Official Meteorology of the British Islands Warwickshire is included in the Midland Counties District of the Principal Wheat-producing Districts; and during the twenty-four years, 1866 to 1889 inclusive, this district is found to have had a mean temperature of  $48^{\circ}4$ , and a mean annual rainfall of 29.1 inches, as against a mean temperature of  $48^{\circ}5$  and a rainfall of 35 inches over the British Islands generally. In the last twelve years, 1878 to 1889 inclusive, the rainy days, or those on which one hundredth part of an inch or more fell, were, in this district, on an average, 191, rising to 210 days in 1882 (the wettest year), and falling to 148 days in 1887 (the driest year), the average number of such rainy days over the British Islands generally during this period having been 196.

But as all the above mean values for the district which includes Warwickshire, are derived from observations taken at stations, none of which are situated within the county, but at an average distance from its centre of not less than fifty miles, considerable variation from these mean values might be expected on comparing the meteorology of the county with that of the district. Daily observations which have been taken during the eighteen years, 1872 to 1889 inclusive, both at Rugby School\* and Barrells Park, near Henley-in-Arden, supply data for calculating very approximately mean values for such comparison. These stations are well situated for the purpose, Rugby being on the eastern border of the county, and nearly equidistant from its northern and southern extremities, while Barrells is in the like position on the western border. Rugby is 383 feet above sea-level, and Barrells 312 feet. Thus the one is probably a little higher and the other a little lower than the average elevation of the county above sea-level.

From these observations the approximate mean temperature of the county is found to be  $48^{\circ}3$ , and the annual rainfall 29.18 inches on 185 days at Rugby, and 32.78 inches on 189 days at Barrells, or 30.96 inches on 187 days approximately for the county.

Interesting as such *mean* values undoubtedly are, and towards their determination the discussion of meteorological observations usually tends, it is rather the distribution of such mean temperature and rainfall throughout the months of the year, the daily range of temperature, and the occurrence of the extremes of heat, cold, and moisture, which are of especial interest to the botanist as to the agriculturist; for it is these conditions which determine what species of plants can exist, flourish, and mature their fruit, and what crop is most suitable to the climate. Comparing Warwickshire with Hertfordshire, for instance, these *mean* values will be found to be very similar for both counties, not only for the year but for many months of the year; while centuries of painful experience of the above controlling conditions have taught the Warwickshire farmer that his county is little fitted for corn-growing compared with Hertfordshire, and such conditions would be found to have exercised an important influence over the comparative flora of the two counties.

Mean meteorological values, again, will vary considerably under small physiological changes; *e.g.*, nine years of daily observations at a station less than  $1\frac{1}{2}$

\* Rugby School Report, *passim*.

miles from Barrells, but 177 feet higher, upon the edge of the plateau which occupies so much of the area of North Warwickshire, show a mean annual temperature  $\frac{1}{2}$  degree lower, and nine more frosty days, but usually comprised in a shorter period of the year, while the annual rainfall is one inch less, and there are twenty fewer rainy days.

For the annual range and distribution through the year of Warwickshire rainfall, atmospheric pressure, and temperature, the tables below may be consulted. The wettest year observed was 1872, when 44·55 inches of rain fell at Barrells in 225 days, and 36·25 at Rugby in 229 days; and the driest year was 1887, with a total rainfall of 19·51 inches, with 144 days on which rain fell, as observed at Rugby. The wettest calendar month observed was August, 1879, when 7·98 inches fell in twenty days at Barrells; and the driest month observed was January, 1880, when 0·39 inches fell in six days at Rugby.

Droughts, or fourteen consecutive days or more without rain, occur at Barrells about once in a year, averaging eighteen days' duration; and partial droughts, or twenty-eight days or more without a total rainfall of ·28 inches, about once in four years, averaging thirty-one days' duration and ·15 inches of rainfall only.

The heaviest rainfall in a short period occurred at Barrells on the 13th July, 1889, when 3·64 inches fell in sixty-five minutes; a quantity unequalled at any station in the British Islands for at least ten years.\* On the 19th June, 1872, 3·41 inches also fell there in two hours, in part explaining the phenomenal rainfall there in that year. Frost, or a temperature of 32° or less, four feet from the ground, occurs at Barrells, on an average, upon eighty days of the year, between the 17th October and 11th May, the first autumn frost being sometimes a fortnight earlier, and the last spring frost ten days later.

N.B.—The mean daily temperature is practically that of a shaded thermometer read at 9 a.m.

RESULTS OF 18 YEARS' DAILY OBSERVATIONS OF WARWICKSHIRE RAINFALL  
FROM 1872 TO 1889 INCLUSIVE.

During Month of	RUGBY SCHOOL.				BARRELLS PARK.				RUGBY AND BARRELLS COMBINED AS AVERAGE FOR COUNTY.			
	Average number of rainy days in 18 years.	Maximum rainfall in any year.	Minimum rainfall in any year.	Average rainfall in the 18 years.	Average number of rainy days in 18 years.	Maximum rainfall in any year.	Minimum rainfall in any year.	Average rainfall in the 18 years.	Average number of rainy days in 18 years.	Maximum rainfall in any year.	Minimum rainfall in any year.	Average rainfall in the 18 years.
		Ins.	Ins.	Ins.		Ins.	Ins.	Ins.		Ins.	Ins.	Ins.
January ..	17	3·84	0·39	2·13	15	4·52	0·58	2·50	16	4·18	0·48	2·31
February ..	16	3·91	0·61	2·03	16	4·26	0·57	2·25	16	4·08	0·59	2·14
March ..	14	3·10	0·62	1·50	14	3·41	0·71	1·89	14	3·25	0·66	1·69
April ..	14	3·67	0·41	1·95	16	3·99	0·61	2·15	15	3·83	0·51	2·05
May ..	14	5·30	0·41	2·19	15	5·78	0·71	2·58	15	5·54	0·56	2·38
June ..	13	4·48	0·75	2·64	14	7·69	0·40	2·82	14	6·08	0·57	2·73
July ..	15	7·88	0·17	3·54	16	6·96	0·55	3·18	16	7·42	0·36	3·36
August ..	14	5·60	1·06	2·55	15	7·98	0·76	3·27	14	6·79	0·91	2·91
September ..	15	4·83	1·02	2·56	15	6·80	1·03	3·15	15	5·81	1·02	2·85
October ..	18	5·62	0·66	3·04	17	7·40	0·66	3·40	17	6·51	0·66	3·22
November ..	18	4·74	1·15	2·88	19	5·04	1·06	3·12	18	4·89	1·10	3·00
December ..	17	4·18	0·61	2·17	17	6·16	0·55	2·47	17	5·17	0·58	2·32
During Year.	185			29·18	189			32·78	187			30·96

\*Symons' British Rainfall, 1889, p. 70.

## ATMOSPHERIC PRESSURE AND TEMPERATURE.

Month.	Mean height of barometer.	Means of Monthly Observations of Maximum and Minimum Atmospheric Pressure and Temperature at Rugby School for seven years from 1883 to 1889 inclusive.					Mean Temperatures computed from daily observations of Maximum and Minimum Shaded Thermometers at Barrells Park for 19 years, from 1871 to 1889 inclusive.		
		Highest corrected reading of barometer.	Lowest corrected reading of barometer.	Highest temperature in shade.	Lowest temperature in shade.	Lowest temperature on grass.	Warmest in any year.	Coldest in any year.	Average of the 19 years.
January ..	30'004	30'667	29'085	52'2	21'0	15'3	42'7	31'2	37'1
February ..	30'014	30'569	29'318	53'7	23'0	15'0	43'8	34'8	39'5
March ..	29'973	30'404	29'106	59'6	21'5	14'8	44'6	38'8	41'5
April ..	29'905	30'401	29'372	65'5	27'5	21'2	50'4	42'8	46'6
May ..	29'935	30'376	29'370	76'7	32'4	26'5	55'7	48'2	51'5
June ..	30'013	30'381	29'639	79'1	39'3	35'3	61'2	55'2	59'5
July ..	29'964	30'307	29'544	80'3	42'0	37'9	65'7	58'2	59'5
August ..	30'001	30'312	29'528	79'8	44'6	36'4	63'6	57'6	60'5
September ..	30'005	30'442	29'452	73'5	34'6	30'4	59'7	52'7	53'4
October ..	29'919	30'459	29'121	64'0	33'3	26'6	52'0	45'1	47'9
November ..	29'954	30'322	29'209	56'5	25'2	20'5	47'3	37'4	41'9
December ..	30'002	30'547	29'140	53'5	23'3	14'6	42'5	31'2	37'3

## DIVISION OF WARWICKSHIRE INTO BOTANICAL DISTRICTS.

In order to show the relative frequency of the plants forming the Warwickshire Flora, it has been necessary to divide the county into districts. For this purpose the county has been divided into ten districts, by means of the water-partings of its principal rivers; this method appearing to myself to be the most natural and most readily comprehended. The districts thus formed are of irregular area; but to make these districts more uniform in area, in cases where the district drained by these streams is very small, two such river basins have been made one, so that the Tame district includes the Tame proper and the smaller river the Bourne. The Blythe includes the Blythe and Cole; the Sow includes the Sow and Sherborne; Leam includes the Leam and Itchen; and the Avon includes the Avon proper and its small tributary the Dene. The following pages will give each of these rivers seriatim, with their course and drainage.

## I.—TAME BASIN.

The Tame takes its rise near Bloxwich and south of Cannock Chase; here it is a small and insignificant stream. It is fed by waters collected in the Silurian hills in the neighbourhood of Dudley, from the country east of Wolverhampton, and from the western side of the ridge, commencing with Hamstead Hill and extending northward several miles. The numerous streams unite a little south-west of Walsall, and the main stream thus swollen passes on past Perry Hall, and enters Warwickshire at the Witton Lane. From this it flows eastward past Salford Bridge, receiving on its left bank a small stream draining Upper and Lower Witton,

and a little east of this the small River Rea enters it on its right bank. This stream, the Rea, rises on the eastern slopes of Rubery Hill, and passing through Northfield and King's Norton, enters the county a little west of Deritend, and joins the Tame near Saltley. Continuing its eastern course, the Tame flows near Castle Bromwich, Water Orton, and under Curdworth Bridge to a little beyond Forge Mills, receiving on its right bank waters from Saltley, Washwood Heath, and Ward End; and on its left bank waters from Erdington, and East Brook, a stream formed by the streams rising in Sutton Park, and fed by the waters from Sutton, Maney, New Hall, Penns, and Popes Hayes, and also by waters from Minworth, Curdworth, and the surrounding country. A little east of Forge Mills the River Blythe enters on its right bank, and half a mile east of this the smaller River Bourne. The River Bourne is formed by the confluence of several streams. The main one—Bourne Brook—rises on Birchley Heath, near Bentley Park, and runs south-west through Ansley, near Arley House, and near Arley railway station is fed by several small streams, one coming west from Astley and past Tipper's Hill; other streams rising on the northern slopes of Corley Moor, the high land in Birchley Hayes, and Didgley Brook from Green End; these streams drain a wide extent of country; and the united waters, forming the River Bourne, take a westerly course, past Hoare Park, Furnace End, and Shustoke to the confluence with the Tame near Hoggets End, its course being about ten miles. Here the Tame takes the course of the Blythe and turns abruptly northward past Lea Marston, Kingsbury, Dosthill, and through Fazeley to Tamworth, receiving on its right bank waters from Baxterley and Freasley, and on the left Langley Brook, which passes through Middleton and Middleton Park to its confluence with the Tame near Fisher's Mill, bringing the waters of a wide area west of the Tame, draining Langley, Wishaw, Canwell Gate, New Park, and the surrounding district. At Tamworth the Tame is joined by the River Anker; and now passing west of Tamworth it enters Staffordshire again, and about eight miles further on joins the Trent near Alrewas. The course of the Tame in Warwickshire is about twenty miles. The valley is wide and comparatively flat, high land occurring at Shustoke, Dosthill, Sutton Park, and Edgbaston.

The principal elevations are Edgbaston, the greatest being in the Hagley Road, 607ft.; Sutton Park, 595ft.; Trickle Coppe, 455ft.; Dosthill, about 500ft.; Ansley Village, 526ft.; tunnel near Arley Station, 531ft.; Gunn Hill, near Arley, 522ft.; Gorsy Lane, 554ft.; Fillongley Village, 404ft.; Green End, near Fillongley, 572ft.; Glebe Farm, 518ft.; Tame, at Witton, where it enters the county, 300ft.; at Bromford, 289ft.; Castle Bromwich, 279ft.; Fazeley Bridge, 212ft.; Ladies' Bridge, Tamworth, 180ft.

The total number of flowering plants and ferns recorded for this valley is 826. Of these the following are the more rare :—

*Thalictrum flavum*; *Ranunculus fluitans*; *R. Lenormandi*; *R. Lingua*; *Caltha Guerangerii*; *Corydalis claviculata*; *Cardamine amara*; *Teesdalia nudicaulis*; *\*Lepidium Draba*; *Viola palustris*; *V. flavicornis*; *Drosera rotundifolia*; *Cerastium quaternellum*; *Geranium pyrenaicum*; *Rhamnus Frangula*; *Ulex Gallii*; *Ornithopus perpusillus*; *Sanguisorba officinalis*; *Potentilla procumbens*; *P. palustris*; *Rubus fissus*; *R. plicatus*; *R. hamulosus*; *R. Salteri*; *R. Sprengelii*; *R. rosaceus*; *R. scaber*; *Rosa coriifolia*; *R. Watsoni*; *Pyrus Aria*; *Callitriche obtusangula*; *Saxifraga granulata*; *Chrysosplenium alternifolium*; *Parnassia palustris*; *Oenanthe crocata*; *Galium uliginosum*; *Bidens cernua*; *Inula Pulicaria*?; *Crepis paludosa*; *Jasione montana*; *Vaccinium Oxycoccus*; *V. Vitis-Idea*; *Calamintha Acinos*; *Scutellaria minor*; *Polygonum maculatum*; *Orchis latifolia*; *Narthecium ossifragum*; *Colchicum autumnale*; *Scirpus pauciflorus*; *Carex dioica*; *C. Ehrhartiana*; *C. fulva*; *Lastrea Thelypteris*; *Lycopodium clavatum*.

## 2.—BLYTHE BASIN.

The Blythe is formed by the confluence of three streams, one rising near Birch Cross, and draining part of the high land near Tanworth; a second, Spring Brook, rising on the border land of Worcestershire and passing through Earlswood;

a third, rising on Shirley Heath. These unite about half a mile north of Waring's Green. From this point the Blythe flows north-west for some distance, under Monkspath Bridge, and Blythe Bridge, near Malvern Hall, and Eastcotes Hall. Here its course is diverted southward, flowing west of Barston, through Springfield and Temple Balsall, receiving on its way a confluence of small streams draining Knowle, Kingswood, Packwood, and Hockley. At Temple Balsall its course is diverted northward, flowing east of Barston Marsh, through Ryton End, and under Patrick Bridge and Stonebridge, receiving on its way streams draining a large expanse of country, including a portion of Wroxall, Balsall Common, Berkswell, Eastcotes Green, and Hampton-in-Arden. From Stonebridge its course is still northwards through Little Packington, east of Coleshill, near Blythe Hall, to its confluence with the Tame near Hams Hall, receiving on both banks numerous feeders from Bickenhill, Maxstoke, and Meriden, and, about a mile before joining the Tame, its principal tributary, the Cole.

The Cole rises in Worcestershire, south-east of King's Norton, and is formed by the confluence of two streams, the more important being Inkford Brook. It commences its connection with the county a little to the south-west of Inkford, at an elevation of 500ft. above sea level; passing under the Alcester Road at Inkford Bridge, it forms the boundary line between the two counties of Worcester and Warwick for many miles, flowing north-east past Forshaw Park, Fulford Heath, and Colebrook Hall, so on through Greet, Yardley Fields, and Coleford, forming the boundary of that narrow strip of Worcestershire in which Acocks Green and Yardley are situated. It re-enters Warwickshire near Babb's Mill, taking a sinuous course eastward, past Chelmsley Wood; near this it receives feeders from Olton, Hampton Coppice, Marston Green, and Bickenhill. A little beyond Chelmsley Wood its course is north-east, through Coleshill Park and the lower part of Coleshill, to its confluence with the Blythe near Forge Mills. Its course in the county is about nine miles.

The Blythe Valley is well wooded and watered by many minor streams, the western portion being a fine elevated district, bounded by the road running from Portway to Birmingham, having an elevation of from 527ft. to 535ft., and forming the water-partings of the Blythe, Cole, Alne, and Arrow. Apsley Heath, near this, is 436ft.; and Forshaw Heath 534ft. On its south-east side, the greatest elevation is near Close Wood, Kinwalsey, 604ft. From these points the land slopes towards the lower levels about Packington, where at the water level of the large pool the elevation is 301ft.

Spring Brook, one of the sources of the Blythe, rises near Wood End above Tanworth, at an elevation of 580ft.; at the confluence of the streams forming the Blythe, the elevation is 415ft.; Monkspath Bridge, 409ft.; Blythe Bridge, near Solihull, 409ft.; Barston, 317ft.; Stonebridge, 278ft.; ford at Little Packington, 262ft.; Blythe Bridge, near Blythe Hall, 247ft., and at its confluence with the Tame about 225ft. The length of its course is about twenty-three miles. The Cole enters the county near Inkford Bridge, the elevation here being 500ft.; bridge, near Coleshill Hall, 274ft.; confluence with the Blythe, near Coleshill, about 230ft.

In this district I have found about 882 flowering plants, ferns, and fern allies, of which the following are the more important:—

*Aquilegia vulgaris*; *Lepidium Smithii*; *Barbarea intermedia*; *Sisymbrium Sophia*; *Sagina ciliata*; *S. nodosa*; *Hypericum Androsæmum*; *H. elodes*; *Radiola linoides*; *Geranium pyrenaicum*; *Erodium cicutarium*; *Genista tinctoria*; *Trifolium filiforme*; *Prunus Padus*; *Rubus hemistemon*; *R. Salteri*; *R. rosaceus*; *Rosa mollis*; *Pyrus torminalis*; *Chrysosplenium alternifolium*; *Cotyledon Umbilicus*; *Myriophyllum spicatum*; *Anthriscus vulgaris*; *Adoxa Moschatellina*; *Filago minima*; *Anthemis arvensis*; *Taraxacum palustre*; *Campanula patula*; *Menyanthes trifoliata*; *Myosotis repens*; *Limosella aquatica*; *Pinguicula vulgaris*; *Calamintha arvensis*; *Littorella lacustris*; *Salix fusca*; *S. argentea*; *Habenaria viridis*; *Gagea fascicularis*; *Narthecium ossifragum*; *Juncus diffusus*; *Lemna gibba*; *Eleocharis multicaulis*; *Scirpus cæspitosus*; *Carex elongata*; *C. curta*; *Alopecurus fulvus*; *Festuca fallax*; *Scolopendrium*; *Botrychium Lunaria*; *Pilularia globulifera*; *Nitella opaca*; *N. flexilis*.

## 3.—THE ANKER BASIN.

The Anker originates from a confluence of small streams, the main stream rising in Ryton Gorse, near Bulkington; this, with streams rising near Wolvey, unite near Wolvers Hill, and the amalgamated streams take a northerly direction past Anker Bridge and Burton Hastings to Sunnyfields. Its course now becomes westerly through Attleborough Fields, and under the Trent Valley and Coventry railways. Near the latter it receives, on its left bank, Griff Brook, a stream rising near Shilton Village and draining part of Bulkington, Bedworth, Griff Hollows, part of Arbury Park, and Chilvers Coton. Besides this, minor streams, draining Wigham and Hinckley, in Leicestershire, have entered its east bank. After receiving Griff Brook, the Anker runs through Nuneaton, near which it receives streams from Stockingford, Galley Common, and Ansley Coalfield. It now takes a south-west, sinuous course through Weddington, Caldecote, Mancetter, and Wetherley to Fieldon Bridge, near Atherstone, receiving on its left bank streams from Hartshill Hayes and Oldbury; and, a little above Wetherley, the River Sence enters its right bank. The Sence is entirely a Leicestershire stream, rising near Bardon Hill, in Charnwood Forest, having a course of about twenty-three miles through the flat lands around Charnwood Forest, Gossall Park, Twycross, Cadeby, and Market Bosworth, and flowing through Sheepy Magna to its confluence with the Anker near Wetherley.

After its confluence with the Sence, the Anker becomes a noticeable stream, and continues its northern course through Grendon and Grendon Park, where it receives a stream rising in Twycross fields. After leaving Grendon Park it turns westerly towards Polesworth. Here the high land forming Hermitage Hill causes the Anker to take an abrupt turn northward past Alvecote Mill, when it again becomes westerly and north-westerly under Shuttington Bridge and past Bole Hall to its confluence with the Tame at Ladies' Bridge, Tamworth, receiving in its course Merivale Brook and waters from Bentley Park and Baddesley Ensor, and on its right bank feeders from Warton, Austrey, and Seckington. The course of this river from its source to its mouth is about twenty-five miles. It is everywhere a pretty stream, and for a considerable distance very brook-like in character, limpid and rapid, and flowing by banks well clothed with the wild flowers that usually haunt these places. The district as a whole is generally flat, but on the west side, about Hartshill and Oldbury, the country becomes elevated, the highest point being Oldbury Fort, where we have an elevation of 558ft. above sea level. Again at Hermitage Hill are other elevations, and on the east side at Austrey and Seckington we have elevated country.

The principal elevations are Oldbury Camp, 558ft.; Oldbury Reservoir, 458ft.; Hartshill Castle, 449ft.; Ironstone Wood, 548ft.; Ansley Hall Colliery, 549ft.; Caldecote Windmill, 470ft.; Seckington, highest point, 316ft.; Austrey, 288ft.; Austrey, near windmill, 376ft.; Newton Regis, 275ft.; Wolvey, 371ft.; Smockington Lane, near Wolvey, 422ft. The Anker takes its rise near Germany House, Wolvey, where the elevation is 384.9ft.; at Wolvers Mill the elevation is 349ft.; Anker Bridge, 315ft.; Shuttington Bridge, 203ft.; confluence with Tame, near Ladies' Bridge, Tamworth, 180ft.

The recorded flora of the Anker basin is 732 flowering plants and ferns, the more noteworthy being:—

*Myosurus minimus*; *Ranunculus penicillatus*; *Berberis vulgaris*; *Cardamine impatiens*; *Viola palustris*; *V. Reichenbachiana*; *Stellaria aquatica*; *Tilia cordata*; *Euonymus europæus*; *Ornithopus perpusillus*; *Vicia sylvatica*; *V. lathyroides*; *Potentilla procumbens*; *Rubus mucronulatus*; *R. Bloxami*; *R. montanus*; *R. foliosus*; *R. Bellardii*; *Rosa andegavensis*; *R. decipiens*; *R. Reuteri*; *R. Watsoni*; *R. bibracteata*; *Ceanothe fluviatilis*; *Cotyledon Umbilicus*; *Gnaphalium sylvaticum*; *Serratula tinctoria*; *Campanula latifolia*; *Wahlenbergia hederacea*; *Hypophitys multiflora*; *Veronica polita*; *Orobanche elatior*; *Rumex acutus*; *Salix pentandra*; *S. rubra*; *Sparganium neglectum*; *Neottia Nidus-avis*; *Alisma ranunculoides*; *Potamogeton pusillus*; *Fritillaria Meleagris*; *Nardus stricta*; *Ceterach officinarum*; *Lastrea Oreopteris*; *Equisetum maximum*; *Chara Hedwigii*.

## 4.—AVON BASIN.

The River Avon rises in Northamptonshire, in a group of springs between Naseby and Welford, and after a course of about nine miles enters Warwickshire at Dove Bridge, a little north of Clifton. Flowing west to Rugby it receives right and left small feeders from Church Over and Hill Morton, and near Rugby Mill the small River Swift. The Swift rises in Leicestershire, some little distance east of Lutterworth, and has a course of about three miles in Warwickshire. From Rugby the course of the Avon is west for about nine miles, the inequality of the country causing it to take wide curves, flowing past Newbold-on-Avon, Church Lawford, Bretford, Wolston, and Ryton-on-Dunsmore, near this place approaching within a mile of the bed of the Sow, and receiving in its course feeders from the high land south of Brinklow, Lawford Heath, and Bourton Heath. From this point its course becomes south-west, and, flowing nearly parallel with the Sow for about three miles, it joins that river at Stoneleigh, and being the principal stream takes the course of the smaller tributary. It now becomes a stream of greater magnitude, and taking its course by Ashow, passes on through the grounds at Guy's Cliff, to which it lends a great enchantment.

A little further on at Emscote it receives its important tributary the Leam, which comes eastward, and, passing close to the walls of Warwick's stately pile, runs through Warwick Park. Here it is joined by the Tachbrook, a stream rising near Itchington Holt, and bringing waters from the high land about Chesterton, Oakley, and Tachbrook, and entering the Avon on its left bank. From Warwick Park the Avon flows on near Barford to Sherborne, where it receives waters from Norton Lindsay, Wolverton, and the high lands around Sherborne. Its course is still south-west through Wasperton, and Hampton Lucy. Near here it receives on its left bank Thelesford Brook, a stream rising near Lighthorne, and draining Moreton Morrell, Newbold Pacey, Ashorne Hill, and Wasperton. In its graceful course through Charlecote it receives an important feeder from the south, the River Dene, a pretty brook-like stream, formed by a confluence of streams from North End, Radway, the north side of Tysoe Hill, and Pillerton Hercy. These unite near Walton Wood, and the main stream runs north through Walton Village, by Bath Hill, and through Wellesbourne Hastings to its confluence with the Avon in Charlecote Park. After leaving Charlecote the Avon flows west through deep banks at Alveston to Stratford-on-Avon, passing the church on its south-east side. A little below Stratford it receives from the south the River Stour, and passing Binton Bridges and Bidford receives from the north the swift flowing Arrow near Salford Priors. Near this village it receives two small streams draining Bevington and Salford, and about a mile further on leaves the county. After leaving Warwickshire it flows into Worcestershire through Evesham and Pershore, and runs into the Severn near Tewkesbury, having a course of about eighty-five miles. Its whole course through Warwickshire is about fifty miles, but, owing to the widely sinuous course of the river, the country through which it travels is only about forty miles if measured in a straight line. The area drained by this river and its tributaries is very great, including nearly the whole of South Warwickshire and some portion of the northern division. The valley of the Avon proper is beautifully undulating and well wooded, watered by many minor streams, with very varied soils, and usually highly cultivated. The greatest elevation in this basin is at Knowle End, Edge Hill, where we have an elevation of 760ft. above sea level; Burton Dasset Hill, highest point, 710ft. About Rugby the country generally is elevated, the highest point being near Dunchurch 518ft., Hill Morton 403ft.

The Avon at Brownsover is 286ft., near Clopton Bridge, Stratford-on-Avon, 110ft., at Bidford Bridge 83ft., at the point where it leaves the county about 80ft.

The Avon basin proper occupies the greatest area of any Warwickshire river, and its flora is not only very varied but also extensive. I have records of about 1,038 flowering plants and ferns, the bog and heath plants being remarkable by their absence. The more noteworthy plants are as follows, those belonging to the River Dene being included :—

*Myosurus minimus*; *Ranunculus trichophyllus*; *R. Sardous*; *R. parviflorus*; *Aquilegia vulgaris*; *Papaver strigosum*; *P. Lecocqii*; *Fumaria confusa*; *Cheiranthus Cheiri*; *Barbarea arcuata*; *B. intermedia*; *Arabis perfoliata*; *Sisymbrium Sophia*; *Erysimum cheiranthoides*; *Diplotaxis muralis*; *Helianthemum Chamæcistus*; *Viola permixta*; *Dianthus Armeria*; *Cerastium arvense*; *Stellaria palustris*; *Hypericum Androsæmum*; *Geranium pusillum*; *\*Erodium moschatum*; *Rhamnus catharticus*; *Medicago arabica*; *Trifolium subterraneum*; *T. scabrum*; *T. filiforme*; *Astragalus glycyphyllos*; *Onobrychis sativa*; *Potentilla argentea*; *Rubus flexuosus*; *Rosa systyla*; *R. gallicoides*; *Geum intermedium*; *Cotyledon Umbilicus*; *Sedum Telephium*; *Bupleurum rotundifolium*; *Carum segetum*; *Cenanthe Phellandrium*; *Ce. fluviatilis*; *Caucalis daucoides*; *Valeriana Mikanii*; *Valerianella Auricula*; *Picris hieracioides*; *P. echioides*; *Crepis biennis*; *Taraxacum udum*; *Campanula glomerata*; *Erythræa pulchella*; *Cynoglossum montanum*; *Solanum nigrum*; *Mentha cardiaca*; *Salix Helix*; *Spiranthes autumnalis*; *Crocus nudiflorus*; *Potamogeton decipiens*; *Avena strigosa*; *Nitella flexilis*.

#### 5.—LEAM BASIN.

The River Leam rises on the northern slopes of Marston Hill, just within the borders of Warwickshire, and within a short distance of the sources of the Rivers Nen and Cherwell. Passing into Northamptonshire, its course is at first north, forming the boundary line of the two counties for some two or three miles, and, re-entering Warwickshire a little north of Wolfhamcote, it takes a north-west course through Grandborough; about a mile and a half below this village it receives on its right bank the Rainsbrook, a small stream rising in Northamptonshire about two miles east of Hill Morton, and entering Warwickshire about a mile south-east of Dunchurch; from this point the Leam takes a west course, near Leamington Hastings and Birdingbury to Marton, where it is joined on its left bank by the Itchen; and receiving on its right and left banks waters from Bourton, Thurlaston, Frankton, and Leamington Hastings and the surrounding district. From Marton it takes a widely sinuous course south-west, through Wappenbury, Honingham, and Offchurch to Radford Semele. receiving on its way waters from Weston, Cubbington, and Whitnash Fields. From this point its course becomes west, through Leamington Priors, to its confluence with the Avon near Emscote Mill. The total length of its course in the county is about twenty-five miles; a straight line across the country traversed would be about sixteen miles. The principal rocks of this basin are those of the Lias Marls and Clays, but about Offchurch and Leamington Keuper Marls predominate.

The Itchen rises on the west slopes of the Marton Hill, near Priors Hardwick, its source being a small spring about 459ft. above sea level. It takes a west course for about six miles, where it receives on its right bank Ham Brook, a small stream bringing waters from the high land about Wormleighton, Fenny Compton, and Burton Hills. After receiving Ham Brook the course of the Itchen becomes northerly, through Bishop's Itchington, near Southam, and through Long Itchington to its junction with the Leam near Marton, receiving on its way, right and left, waters from Itchington Holt, Marston Doles, Shuckburgh, Napton-on-the-Hill, Southam, and Harbury Heath. Its course from source to mouth is about sixteen miles, and the soils it drains are those of the Upper and Lower Lias. It is little more than a brook in any part of its course, and having a somewhat gentle current it is usually beautifully weed-grown.

Whilst a great portion of the Leam and Itchen basin is over 400ft., there are no great elevations, the high land above Avon Dassett (where the Ham Brook rises) being the highest point, 668ft., Fenny Compton 411ft., Napton-on-the-Hill 507ft., Shuckburgh, highest point, 565ft. Near the source of the Itchen, Priors Hardwick, the highest point, is 480ft. The Leam enters the county near Wolfhamcote, 296ft.; and at its junction with Rainsbrook it is about 251ft.; at Thurlaston Bridge 239ft.

The flora of the district is peculiar for the absence or rarity of heathland and marsh plants; a few, however, are found about Harbury and Bascote Heaths. The total recorded flora is about 744 flowering plants and ferns, of which the following are the more special:—

*Diplotaxis Babingtonii*; *Melilotus officinalis*; *Trifolium fragiferum*; *Lotus tenuis*; *Lathyrus sylvestris*; *Prunus Cerasus*; *Spirea Filipendula*; *Rubus hystris*; *R. tenuis*; *Geum intermedium*; *Rosa arvensis*; *R. subcristata*; *Pyrus Acheras*; *P. mitis*; *Hippuris vulgaris*; *Myriophyllum verticillatum*; *Callitriche obtusangula*; *Caulalis nodosa*; *Galium Bakeri*; *Erigeron acer*; *Cnicus acaulis*; *Linaria viscaria*; *Viscum album*; *Salix triandra*; *Orchis pyramidalis*; *Ophrys apifera*; *Galanthus nivalis*; *Scirpus Tabernæmontani*; *S. maritimus*; *Carex acuta*; *C. distans*; *C. lævigata*; *Setaria viridis*; *Calamagrostis lanceolata*; *Polystichum angulare*; *Chara longibracteata*; *C. papillata*.

#### 6.—SOW BASIN.

The Sow rises on the high land around Astley, flowing south-east through Bedworth woodlands, where it receives on its left bank a stream carrying part of the overflow of the waters from Arbury. Here its course becomes south through Exhall, where it is joined by Breach Brook, a stream draining part of Fillongley and Corley; still pursuing its southward course through Longford and Foleshill, it is fed on its right bank by waters from Whitmore Park and its neighbourhood and on its left bank by March Brook, a stream draining Hawkesbury. After this its course becomes west for some few miles through Wyken, Sow, and Binley, receiving on its left bank streams draining Monk's Kirby, Hopsford, Withybrook, Shilton, Ansty, Combe Pastures, Combe Woods, Newbold Revel, Stretton-under-Foss, and part of Brinklow. From Binley it takes a widely sinuous course south-west through Willenhall and Baginton to its confluence with the Avon near Stoneleigh, receiving near Baginton the Sherborne, a stream draining Allesley, Hollyberry End, and Eastern Green, and near Finham Green a stream draining Westwood Heath, Tile Hill, Stivichall, and Kenilworth.

The highest point in this basin is near Corley Church, where we have an elevation of 625ft., all the country about Corley being elevated; St. Mary's Church, 589ft.; Wall Hill Farm, 505ft.; Keresley, 439ft., falling at Coventry to 304ft. On the east side at Cloudsley Bush we have 436ft.; Monk's Kirby, 349ft., falling to 277ft. at Hill Green, near Foleshill.

This district has not been exhaustively worked, the present record being 850 flowering plants and ferns, the following being some of the more rare:—

*Ranunculus Drouetti*; *R. radians*; *Arabis perfoliata*; *Lepidium ruderalis*; *Silene anglica*; *Stellaria umbrosa*; *Geranium pyrenaicum*; *Rubus Colemani*; *R. calvatus*; *R. thyrsoiflorus*; *Geum rivale*; *Agrimonia odorata*; *Rosa Doniana*; *R. surculosa*; *R. cæsia*; *Pyrus Aria*; *Epilobium obscurum*; *Anthriscus vulgaris*; *Solidago Virgaurea*; *Jasione montana*; *Centunculus minimus*; *Cynoglossum montanum*; *Limosella aquatica*; *Utricularia vulgaris*; *Mentha pulegium*; *Lamium hybridum*; *Sparganium minimum*; *Potamogeton Friesii*; *Carex axillaris*; *C. stricta*; *Equisetum sylvaticum*; *Chara contraria*; *C. crassicaulis*.

#### 7.—STOUR BASIN.

The Stour rises at Stour Well, near Tadmorton Camp, in Oxfordshire, and enters Warwickshire at Traitor's Ford, about three miles west of its source. From this point it takes a westerly course for about five miles, through Stourton and Cherrington to Mitford Bridge, receiving from the north streams rising in the high land about Compton Wynnyates, Brailes, and Sutton, and from the south, waters from Whichford, and a stream rising in the high land by Rollright Stones, and running through Long Compton, near Burton-on-the-Heath, Great and Little Wolford, and the surrounding country. After passing Mitford Bridge its course becomes abruptly north for about nine miles through Burmington, Barcheston, Shipston-on-Stour, and Halford to Upthorp Mill, forming the county boundary for many miles, and receiving waters on both east and west banks, such as Knee Brook, a stream draining a large district west and south-west, and Pig Brook, which rises near Stretton-on-Fosse. On its east bank it is also fed by a stream rising on the northern slopes of Brailes Hill; and near Tredington it receives a

stream rising on the northern slopes of the high land about Compton Wynyates and Tysoe Fields, and running through Oxhill and Whatcote. From Upthorpe the Stour takes a sinuous course west and north-west through Crimscote, Whitehouse, Preston-on-Stour, Atherstone-on-Stour, and Clifford Chambers to its confluence with the Avon near Upper Milecote, receiving in its course a stream draining the northern slopes of Ilmington Hill, and running through Wimpstone Fields and Wimpstone.

Although the Stour is for a considerable portion of its course an insignificant stream, the country through which it runs is peculiar for its alternation of hill and dale, Bright Hill, Brailes Hill, and Ilmington Hill being among the more lofty of the Warwickshire hills, and commanding fine, picturesque, and far-reaching views over the surrounding country.

The highest point in the Stour basin is Ebrington Hill, where an elevation of 855ft. is attained. This forms a part of the western boundary. On Bright Hill, which forms its south boundary, 737ft. is attained, falling at Long Compton to 340ft. Northward, at Compton Wynyates, the highest point is 611ft.; Brailes Hill, about 700ft. Eastward, on the high road forming the Oxfordshire boundary, the highest point is 705ft. From all these points the country falls to a flat vallée, which at Halford is only about 200ft. above sea-level; Whitchurch, 133ft.; and at the confluence of the Rivers Stour and Avon, 133ft. The course of the Stour is about twenty miles, and its fall is from 420ft. at Traitor's Ford to 120ft. at its confluence with the Avon.

This district is well wooded, and contains here and there remains of what have in former times been somewhat extensive heathlands; and, although not exhaustively worked, it has yielded a flora of 703 species of flowering plants and ferns, of which the following are the more noteworthy:—

*Clematis Vitalba*; *Ranunculus trichophyllus*; *Reseda Luteola*; *Viola hirta*; *Polygala oxyptera*; *Dianthus Armeria*; *Stellaria umbrosa*; *Euonymus europæus*; *Trifolium filiforme*; *Vicia gracilis*; *Rubus pubescens*; *R. deltoideus*; *Rosa inodora*; *R. andegavensis*; *Myriophyllum alterniflorum*; *Epilobium tetragonum*; *Apium graveolens*; *Cenanthe Lachenalii*; *Galium tricornue*; *Carlina vulgaris*; *Arctium nemorosum*; *Lysimachia vulgaris*; *Samolus Valerandi*; *Gentiana Amarella*; *Myosotis collina*; *Cuscuta europæa*; *Verbena officinalis*; *Rumex pulcher*; *Salix amygdalina*; *Orchis incarnata*; *Allium oleraceum*; *Juncus compressus*; *Alisma ranunculoides*; *Potamogeton flabellatus*; *Koeleria cristata*; *Bromus erectus*; *B. velutinus*; *Nardus stricta*; *Tolypella glomerata*; and several very rare mosses.

#### 8.—THE ALNE BASIN.

The River Alne is formed by two principal feeders. The main stream rises near Aspley Heath, and takes a westerly course near Tanworth, by Tanworth Mill, under the bridge by the Bird-in-Hand, through Henley-in-Arden and Beaudesert, to the grounds of Wootton Hall, where it is joined by the second principal feeder. This stream rises near Wroxall Abbey, about seven miles north-east of Wootton Hall, and runs through Tadpole Green, Rowington, Lowson Ford, Preston Bagot, and by Crab Mill to its confluence with the main stream; receiving on its right bank a stream rising near Chalcot Wood, and flowing through Lapworth and near Lapworth Hall, to its confluence with this stream near Yarningle Common.

The united stream takes a course south and south-west near Wootton Wawen, Aston Cantlow, Great Alne, and Kinwarton, to its confluence with the Arrow at Alcester, receiving on its left bank a stream draining the country around Shrewley, Pinley, Claverdon, Langley, and Bearley, and joining the Alne near Little Alne. The course of this river from its source is about seventeen miles, but it drains a large extent of country, usually flat, but having slight elevations near Tanworth and Henley-in-Arden. The north-west portion of the district is an elevated plateau forming the water partings of the Alne and Blythe, the greatest elevation being at Tanworth, 514ft. above sea level; main drive to Umberslade Park

500ft. ; on the north-eastern side of the district, near Rowington, the greatest elevation is 420ft. ; Church Farm, Wolverton, is 430ft. The principal feeder rises on elevated land near Tanworth, at an elevation of 500ft. The second stream rises near Baddesley Clinton, at an elevation of 35ft. ; this at Crab Mill has fallen to 24ft. , and the united streams join the Arrow near Oversley Bridge, at about 120ft. The flora of this district is 818 flowering plants and ferns ; the more local are as follows :—

*Ranunculus pseudo-fluitans* ; *R. Godronii* ; *R. Lingua* ; *Astragalus glycyphyllos* ; *Lathyrus Aphaca* ; *Rubus rhamnofolius* ; *R. emersistylus* ; *R. flexuosus* ; *Rosa scabruscula* ; *R. hystrix* ; *Pyrus torminalis* ; *Pimpinella major* ; *Caucalis daucoides* ; *C. nodosa* ; *Sambucus Ebulus* ; *Asperula cynanchica* ; *Valerianella Auricula* ; *Inula Conyza* ; *Arctium intermedium* ; *Campanula glomerata* ; *Salvia verbenaca* ; *Rumex acutus* ; *Salix decipiens* ; *S. Woolgariana* ; *S. Forsteriana* ; *Ophrys apifera* ; *Colchicum officinale* ; *Potamogeton densus* ; *Gastidium lendigerum* ; *Avena pratensis* ; *Cetarach officinarum* ; *Polystichum aculeatum* ; *P. angulare* ; *Chara Hedwigii*.

#### 9.—ARROW BASIN.

The Arrow rises in Worcestershire in a valley to the north-east of Alvechurch. It enters Warwickshire on its western border near Beoley Lane, having a little before received on its right bank a small stream draining the outlying portion of Warwickshire lying west of Redditch. Its course is at first south-west through Ipsley and Washford, receiving on its left bank streams from the high lands about Ipsley and Mappleborough Green. Its course now becomes south through Studley, Sperrall, and Coughton to Oversley Bridge, receiving on its way streams coming from east and west, and draining the land about Morton Bagot, Crabbs Cross, and Sambourn. After its confluence with the Alne at Alcester, it takes a short turn eastward through the pretty village of Arrow, but rapidly recovering its southern course it flows through Wixford and Broom to its confluence with the Avon near Salford Bridge, receiving on either bank waters from Exhall and Bevington. Its whole course is about twenty miles, sixteen of which are in Warwickshire. The valley it waters is narrow, hilly, and well wooded, the prevailing soils being those of the New Red Sandstones and Marls, but in its more southern portion those of the Lias prevail.

The valley of the Arrow is low and flat, rarely attaining an elevation or more than 200ft. , usually below that. In the Warwickshire portion, on the east and west sides, the country rises somewhat abruptly. The western side is bounded by an elevated plateau, called the Ridgeway, which has an elevation of from 372ft. to 408ft. On its north-west side Gorgot Hill, 542ft. , is the highest point. A little south of this is Sperrall Park, a somewhat lofty wood about 400ft. , and the Alne Hills about 400ft. ; whilst still further south is Oversley Hill, about 300ft. Weatheroak Hill, which forms part of its north-east boundary, is in Worcestershire. This, at its highest point, is 612ft. The principal feeder forming the Arrow runs through Birtel Reservoir, near Alvechurch. Here we have an elevation of 507ft. From this the stream falls rapidly, so that at Ipsley, near where it enters the county, it is 245ft. ; at Sperrall, 170ft. ; Oversley Bridge, 120ft. ; Wixford, 110ft. ; Broome, 97ft. ; and at its confluence with the Avon, 86ft.

The total recorded flora is 738 flowering plants, ferns, and fern allies, of which the following are the more noticeable :—

*Ranunculus parviflorus* ; *Helleborus viridis* ; *H. foetidus* ; *Sisymbrium Sophia* ; *Silene noctiflora* ; *Hypericum hirsutum* ; *Tilia cordata* ; *Onobrychis sativa* ; *Lathyrus Nissolia* ; *Rubus mucronatus* ; *R. scabrosus* ; *Potentilla procumbens* ; *Rosa spinosissima* ; *R. Sabini* ; *R. mollis* ; *R. micrantha* ; *R. subcristata* ; *Pyrus Aria* ; *P. communis* ; *Apium repens* ; *Anthriscus vulgaris* ; *Galium uliginosum* ; *Anthemis arvensis* ; *Carlina vulgaris* ; *Blackstonia perfoliata* ; *Linaria Elatine* ; *L. spuria* ; *Euphorbia amygdaloides* ; *Cepha-*

*lanthera ensifolia*; *Habenaria conopsea*; *H. chloroleuca*; *Iris foetidissima*; *Juncus obtusifolia*; *Luzula maxima*; *Lemna gibba*; *Scirpus sylvaticus*; *Carex juncella*; *C. fulva*; *C. paludosa*; *Poa compressa*; *Polystichum lobatum*; *Ophioglossum vulgatum*; *Nitella flexilis*.

#### 10.—CHERWELL BASIN.

The Cherwell district embraces that portion of Warwickshire lying south-west of Wormleighton, Fenny Compton, and Burton Dassett, and a narrow tongue of land north-east of Wormleighton, and includes a part of Priors Marston, Wormleighton, part of Fenny Compton, Avon Dassett, part of the southern escarpment of the Edge Hill, Warmington, and Shotswell. This district is drained by small tributaries to the Cherwell.

The whole district is comparatively elevated; north of Wormleighton the greatest elevation is at Priors Marston 626ft.; in the road by the quarry above Avon Dassett we have 668ft., on the Edge Hill, near Knowle End, 766ft., Wormleighton 514ft., and Farnborough 570ft. at its highest point.

The flora is comparatively poor. I have only been able to record 516 species of flowering plants and ferns after several visits. Of these the following are the more noteworthy :—

*Ranunculus circinatus*; *Papaver Lecoqii*; *Helianthemum Chamæcistus*; *Viola Reichenbachiana*; *Rhamnus catharticus*; *Trifolium fragiferum*; *Anthyllis vulneraria*; *Prunus Cerasus*; *Spiræa Filipendula*; *Rubus fasciculatus*; *Poterium Sanguisorba*; *Rosa dumetorum*; *R. implexa*; *Hippuris vulgaris*; *Callitriche obtusangula*; *Epilobium roseum*; *Apium nodiflorum*; *Sison Amomum*; *Peucedanum sativum*; *Galium erectum*; *Valerianella dentata*; *Scabiosa Columbaria*; *Carduus acanthoides*; *Cnicus eriophorus*; *Centaurea Scabiosa*; *Crepis biennis*; *Campanula latifolia*; *Thymus Chamædrys*; *Stachys ambigua*; *Galeopsis Ladanum*; *Chenopodium Bonus-Henricus*; *Ulmus major*; *U. nitida*; *Salix pentandra*; *Ceratophyllum demersum*; *Cephalanthera pallens*; *Typha angustifolia*; *Acorus Calamus*; *Potamogeton Friesii*; *Carex paludosa*; *C. rostrata*; *Poa compressa*; *Festuca myurus*; *F. fallax*; *Asplenium Ruta-muraria*; *A. Adiantum-nigrum*; *Equisetum maximum*.

## PLAN OF THE FLORA.

In the following pages the Flowering Plants, Ferns, and Fern Allies of Warwickshire are systematically treated. The nomenclature and arrangement are, with a few exceptions, those of "The London Catalogue of British Plants," 8th edition. When the name adopted in this Flora differs from that given by the various authorities quoted, such as Ray, Withering, Perry, "Topographical Botany," Purton's "Midland Flora," or Syme's Edition of Sowerby's "English Botany," the names used by these authorities are given as synonyms, and printed in italics.

The Natural Orders and Genera are printed in Roman capitals. The Latin names of the Species are printed in Clarendon type, followed by an abbreviation of the name of the botanist (in *italics*) who first so named the species (*e.g.*, *Clomatis Vitalba*, *Linn.*, Linnæus being the first known authority for the scientific name of this plant). English names are given for the species, and, when known, the local or county names are also given; these are printed in *italics*. The really local names are very few.

In the next paragraph will be found a reference to Mr. Hewett C. Watson's "Topographical Botany" (for the sake of space abbreviated to Top. Bot.) whenever the plant in question is either directly or indirectly recorded for Warwickshire in that work; to Purton's "Midland Flora" (abbreviated to Purt.) when it gives a Warwickshire locality, or when it is recorded as common, and has been seen by myself near Alcester, where Purton lived; and to Syme's edition of Sowerby's "English Botany" (abbreviated to Syme E. B.), giving the page on which the plant is described and the number of the plate illustrating it.

The succeeding paragraph states—First, the grade of citizenship of the plant as given by Hewett C. Watson in his "Compendium of the Cybele Britannica," such as "native," "denizen," "colonist," &c. (these terms are explained at page 467); and, Second, the habitat or usual place of growth of the plant, such as "woods," "waysides," "hedges," &c. This is followed by a general statement as to its comparative frequency, such as "common," "frequent," "locally common," "locally abundant," "rather local," "local," "very local," "rather rare," "rare," "very rare." It must be understood that the significance of these terms cannot be strictly defined or accurately applied. "Abundant" or "plentiful" are local terms, and do not refer to general distribution. A "very rare" plant may be abundant in one or two localities, of which *Carex Ehrhartiana* is an instance. It is described in the Flora as "very rare," and only occurs in one locality, but it is "abundant" in that locality. These terms, however, apply to the relative frequency of the plant in Warwickshire only, and not to Britain as a whole. The next point dealt with is the *duration* of a plant; that is to say, whether it is an "annual," a "biennial," "shrub," &c., and is indicated as follows:—A. for annual, B. for biennial, P. for perennial, S. for shrub, T. for tree. Lastly, the months in which a plant is usually found in full flower are stated. This information, it must be remembered, is also of local significance only.

The next paragraph gives the first record of the plant known to the writer. This record may be a printed one, or a written one, published or unpublished; it may be that of a dried specimen seen, or of one contained in a public or private herbarium, or it may be only a MS. entry in a book, &c. But the writer disclaims any idea of speaking authoritatively on this point, for, as will be readily seen, earlier records may exist of which he has no knowledge.

The account of the distribution of a plant through the various districts into which the county has been divided in the Flora then follows in proper sequence. This is fully given, except in the case of plants which are very common. The county of Warwick, for the purpose of this Flora, is divided into ten districts, which are based on the river drainage, and a full account of them is given at pages xix. to xxviii. They are briefly as under:—1, Tame; 2, Blythe; 3, Anker; 4, Avon; 5, Leam; 6, Sow; 7, Stour; 8, Alne; 9, Arrow; 10, Cherwell. Some of the localities cited, however, are on the water-partings, such as Honiley, Berkswell, &c., hence these places may appear in two basins, in more instances than one.

## SIGNS AND ABBREVIATIONS USED.

The writer is accountable for all records from those districts not followed by an authoritative name, printed in italics, and has, in every instance, seen the plant growing in the locality given. When the writer has seen the plant growing in the locality or localities recorded, followed by an authoritative name, this fact is signified by a note of admiration (!) *after the locality* (e.g., *Thalictrum flavum*, 4, Avon, Bidford! *Purt.* i. 267); and when he has only had or seen a specimen from the locality, collected by the authority given, such fact is signified by a note of admiration (!) *after the authority's name* (e.g., *Thalictrum flavum*, 1, Tame, near Middleton, *J. B. Stone!*). An asterisk (\*) prefixed to the Latin name of a plant indicates that the plant, in the writer's opinion, has been introduced possibly recently, and the terms "denizen" or "alien" are used to accentuate this opinion. Casuals are in all cases (except as stated below) printed in *italics*, and, with the record following their names, placed between brackets [ ]. The exceptions are one or two isolated cases, where the plants, though termed by the writer casuals, being natives of Britain, have been printed in Clarendon type. Two asterisks (\*\*) prefixed to the Latin name of a plant indicate in all cases, whether so stated or not, that, in the opinion of the writer, such plants are merely casual plants in this county.

When the name of an authority is placed in parentheses, after a varietal name, such signs indicate that though the plant is here given as a variety, it was considered to be a distinct species by the authority whose name is placed in parentheses; as for instance page 75, *Rubus leucostachys* var. *conspicuus* (*P. J. Müll.*). This is here treated as a variety, but was considered to be a distinct species by P. J. Müller.

Following the account of the distribution of the Flowering Plants and Ferns, is a record of the Mosses, Hepatics, and Liverworts known to exist in the county. This study has occupied my attention since the year 1867. In this portion of the Flora the county is divided into three districts only, the Tame, Avon, and Cherwell, the records not being sufficiently full to require greater sub-division of the area. This is succeeded by a list of the Lichens, compiled chiefly from Leighton's "Lichen Flora of Great Britain." For these plants I have not had the leisure requisite for a fuller record.

Following next is an account of the Fungus Flora (Hymenomycetes and Gymnomycetes) of Warwickshire, by W. B. Grove, M.A., and myself. In this record the county is given as a whole, so little of it having been systematically worked; the records belong mainly to districts 1, 2, 3, 4, 6, 8, and 9.

A summary of the Flora, with a tabulated account of the distribution of the Flowering Plants and Ferns, and a list showing their comparative occurrence in the counties of Warwick, Leicester, Northampton, and Oxford follows next. The volume concludes with a History of the Progress of Botany in the county of Warwick. In this I have endeavoured to give a biographical sketch of the various workers who have from time to time helped to forward our knowledge of the Warwickshire Flora, with a list of the plants they first recorded. This portion of the work is, I know too well, faulty and incomplete, the material from which these memoirs were compiled being too scanty to allow of fuller treatment.

# LIST OF BOOKS, MSS., HERBARIA, &c., CONSULTED AND QUOTED IN THE FLORA.

The names printed in *italics* in the following list, whether in full or curtailed, are those quoted in the body of the Flora.

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*Bab. Man.*—Manual of British Botany. C. Cardale Babington, M.A., F.R.S. Ed. v. to viii.

*Bab. Brit. Rubi.*—The British Rubi. C. C. Babington, London, 1869.

*Baker*.—Monograph of British Roses. J. G. Baker, F.R.S., Journal of Linnean Society, Vol. 11.

*Dr. Baker*.—Specimens and notes from Robert Baker, M.D., Leamington.

*Baxter*.—British Phænogamous Botany. W. Baxter, A.L.S., Oxford. Six vols., 1834-43.

*Baxter, MS.*—Notes from herbarium specimens, &c., of late W. Baxter. (Kindly copied for me by Mr. G. C. Druce, M.A.)

*Baynes, MS.*—Manuscript notes from Mr. W. W. Baynes, in an interleaved copy of Perry's "Plantæ Varvicensis Selectæ," in my possession.

*Berk.*—Outlines of British Fungology, by the Rev. M. J. Berkeley, M.A., F.L.S., 1860.

*Blox.*—Rev. Andrew Bloxam, M.A. Notes in Phytologist.

*Blox., MS., and Blox. in Lit.*—Manuscript notes in Mr. Bloxam's copy of Purton's Midland Flora, in my possession; also in correspondence.

*Bolton King.*—Manuscript notes and specimens, Bolton King, Esq.

*Bot. Exch. Club Rep.*—Botanical Exchange Club Reports, 1870 to 1889.

*Bot. Rec. Club Rep.*—Botanical Record Club Reports.

*Bot. Guide.*—The Botanist's Guide through England and Wales. Dawson Turner and L. W. Dillwyn. London, 1805.

*Braithwaite.*—The British Moss Flora, by R. Braithwaite, M.D., F.L.S. Parts I. to XII.

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*Bree, Mag. Nat. Hist.*—Notes by the Rev. W. T. Bree, M.A., in Magazine of Natural History, 9 vols., 1828 to 1836.

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*Bree, N. B. G.*—Notes to New Botanist's Guide, 1835-7.

*Bree, Phyt.*—Notes by Rev. W. T. Bree in Phytologist, conducted by G. Luxford. June, 1841, to June, 1854.

*Briggs.*—Flora of Plymouth. T. R. Archer Briggs, F.L.S., 1880.

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*Bry. Brit.*—Bryologia Britannica, a new (3rd) Edition. By William Wilson, 1855.

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*Comp. Cyb.*—Compendium of Cybele Britannica. London. 1870.

*Cooke.*—Handbook of British Fungi. Two vols., 1871. M. C. Cooke, M.A.

*Cooke.*—Grevillea, a Record of Cryptogamic Botany and its Literature. Edited by M. C. Cooke, M.A. 19 vols., 1872-1890.

*Cooke.*—Illustrations of British Fungi. Vols. 1 to 7.

*Cyb. Brit.*—Cybele Britannica. Hewett Cotterill Watson. Four vols., 1847-1859.

*Cyb. Hiö.*—Cybele Hibernica. By David Moore and A. G. Moore, 1866.

*De Candolle.*—Origin of Cultivated Plants, by Alphonse De Candolle.

*Dill.*—Ray's Synopsis. Ed. iii. (J. Dillenius).

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*Du Mortier.*—Hepaticæ Europæ. Auctore Barth. Car. Du Mortier, 1874.

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- Freeman, Phyt.*—List of some rarer Plants observed in the neighbourhood of Birmingham. Samuel Freeman, Phytologist. Vol. 1, 261-2.
- Fries.*—Hymenomycetes Europæi, Elias Fries, 1874.
- Gibs. Camd.*—Gibson's Edition of Camden's Britannia, 1695. The plant list by Ray.
- Gorle.*—Notes by the Rev. James Gorle, Rector of Whatcote. Copied by Rev. W. W. Newbould.
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- Groves, H. and J.*—A Review of the British Characæ by Henry and James Groves, 1880.
- Groves, H. and J.*—Notes on the British Characæ, dates various.
- Herb. Bab.*—The Herbarium of Professor C. C. Babington, Cambridge.
- Herb. Bor.*—The Herbarium of the late William Borrer, at the Royal Herbarium, Kew.
- Herb. Brit. Mus.*—The Herbarium of British Plants in the British Museum. All my records from the above herbaria were copied by the late Rev. W. W. Newbould, M.A.
- Herb. Per.*—The Herbarium of the late W. G. Perry in the Warwick Museum.
- Herb. Purt.*—The Herbarium of the late Thomas Purton in the Worcester Museum.
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- Jons. Ger.*—The Herball, by John Gerarde; very much enlarged by Thomas Johnson. Lond., 1633.
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- Kirk, and Kirk, Herb. Per.*—Phytologist ii. 969, and specimens in Herb. Perry.
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- Ray, Hist.*—*Historia Plantarum*, Vol. 1, 1686; Vol. 2, 1688.
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- Thickens*.—Notes in *Phytologist*, Vol. 3, 223.
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- Y. and B.*—*Catalogue of Plants Collected in Warwickshire in the year 1873*, by the Rev. J. R. Young and Dr. R. Baker.

LIST OF THE PRINCIPAL PERSONS WHO HAVE CONTRIBUTED  
NOTES OR RENDERED OTHER ASSISTANCE IN THE  
PREPARATION OF THIS FLORA.

- Adams, Rev. D. C. O., Ansty.—Notes and localities.  
 Adcock, Chas., M.R.C.S.—Localities.  
 Babington, C. C., M.A., F.R.S., Cambridge.—Assistance in critical genera.  
 Badger, A. Bernard, B.A.—Geology of the county,  
 Badger, E. W., F.R.H.S.—Reading proofs, general revision, and other valuable literary help.  
 Baker, J. G., F.R.S., Kew.—Assistance in critical genera.  
 Baker, R. L., M.D., Leamington.—Localities.  
 Beck, Mrs. S. Coker, Crowell Rectory, Oxon.—Local notes from Sow basin.  
 Bennett, Arthur, F.L.S.—Critical help.  
 Bloxam, Rev. A., M.A.—Specimens, localities, and critical assistance.  
 Brodie, Douglas, Croydon.—Localities, &c.  
 Bromwich, Henry, Milverton.—Localities, &c.  
 Caswell, Rev. J., Oscott.—Copious notes for the county.  
 Christ, Dr., Geneva.—Assistance with the genus *Rosa*.  
 Cooke, M. C., London.—Critical help with Fungi.  
 Druce, G. C., F.L.S.—Notes copied from various sources, and specimens.  
 Grove, W. B., M.A.—Notes from various localities, and most valuable help in correcting proofs and other much valued literary assistance.  
 Groves, H. and J.—Critical help with Characeæ, and specimens.  
 Haeckel, Prof., St. Poelten, Austria.—Critical aid, and specimens of grasses.  
 Hillhouse, Prof. W.—Localities, and help in correcting proofs, &c.  
 King, Bolton, M.A.—Notes, specimens, and localities.  
 Mathews, Donald, of Redditch.—Localities.  
 Mathews, Wm., M.A., Edgbaston.—Localities.  
 Newbould, W. W., M.A.—Unwearied kindness and greatest assistance ; with notes from Herbaria, and books beyond my reach.  
 Newton, T. H. G., M.A.—Meteorology.  
 Purchas, Rev. W. H., Alstonfield Vicarage.—Specimens and correspondence.  
 Rogers, Robert.—Notes from Hampton-in-Arden.  
 Rogers, Rev. W. Moyle.—Specimens and notes.  
 Slatter, J. T. Evesham.—Notes from the Arrow basin.  
 Stone, J. B., F.L.S.—Notes from the Tame basin.  
 Tonks, Edmund, B.C.L.—Notes from Knowle district.

# FLORA OF WARWICKSHIRE.

## CL. I. DICOTYLEDONES.

### ORD. I. RANUNCULACEÆ.

#### CLEMATIS. Linn.

**Clematis Vitalba**, Linn. *Traveller's Joy.*

Top. Bot. 1. Purt. i. 265. Syme, E. B. vol. i. p. 2. plate 1.  
Native; hedges and thickets in marly calcareous soils. Locally abundant. S.  
July to September.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Near Curdworth Bridge, probably planted.
2. BLYTHE. Junction of roads to Stonebridge and Bannersley.
4. AVON. Hedges on high ground between Norbrook and Norton Lindsay,  
*Per. Fl.* p. 46. Whitnash; Chesterton, Oakley, *Brom.* Lighthorne,  
*Bolton King.* Abbot's Salford, *Caswell.* Bardon Hill, near Stratford;  
Grafton; Binton.
6. SOW. Allesley, rare, *Rev. W. T. Bree, New Bot. Guide*, 1835. Sand quarry,  
lane from Allesley to Brownhill Green.
7. STOUR. Near Oxhill, abundant; near Halford.
8. ALNE. Drayton Bushes.
9. ARROW. Oversley Wood; lane from Sperrall to Studley.
10. CHERWELL. Avon Dassett.

#### THALICTRUM. Linn.

**T. flavum**, Linn. *Common Meadow Rue. Rue Weed.*

Top. Bot. 3. Purt. 1. 267. Syme, E. B. i. 9. 8.  
Native; wet meadows, river and ditch banks. Rather rare. P. June-July.  
First record, Purt. *Midland Flora*, 1817.

1. TAME. Near Middleton, *J. B. Stone!* Abundant by the river near Aston  
Church, 1879; Hams Hall Park; Forge Mills; Minworth; Hemling-  
ford Green near Kingsbury.
2. BLYTHE. Banks of Blythe near Blythe Hall.
3. ANKER. Banks of Anker near Mancetter.

4. AVON. Banks of Avon at Bidford! *Purt.* i. 267. Beside the Avon, Brownsover Fields, *Rugby Sch. Rep.*, 1877. Barford Meadows, *Perry List*. Gaydon, *Bolton King*. Abbot's Salford! *Caswell*.
5. LEAM. Banks of Leam between Leamington and Radford, *Per. Fl.* 46. River Leam at Offchurch, *Brom. Herb. Bab.*
9. ARROW. The Arrow near Beauchamp Court, *Purt.* i. 267.

ANEMONE. *Linn.***A. nemorosa**, *Linn.**Wood Anemone. Windflower.*

Top. Bot. 4. Syme, E. B. i. 12. plate 11. *Purt.* i. 256.  
 Native; woods, hedge banks, meadows. P. Generally distributed. March to May.  
 First record, *Perry List*, 1817. Wootton Grange.  
 In calcareous and marly soils the flowers are often purple.

MYOSURUS. *Linn.***M. minimus**, *Linn.**Mouse-tail.*

- Top. Bot. 5. *Purt.* i. 167. Syme, E. B. i. 15. 14.  
 Native; sandy cornfields. Rare. A. May-June.  
 First record, Aylesford, *Botanists' Guide*, 1805.
2. BLYTHE. Chelmsley Wood, *Aylesford, Bot. Guide*, 634. Extinct now? Coleshill, *Rev. W. T. Bree, Mag. Nat. Hist.* iii. 164.
  3. ANKER. Atherstone Outwoods, *Rev. W. T. Bree, Mag. Nat. Hist.* iii. 164. Cottage garden, Atherstone, *J. Power, MS. Note*.
  4. AVON. Field near Hampton-on-the-Hill, *Perry List*, 1817. In a field near the Cross, between Norton Lindsay and Warwick, *Per. Fl.* 28. Milverton; Myton! *Brom.* Whitnash! *Y. and B.* By the River Avon at Brownsover, *Trott.* Woodloes; Tachbrook! Budbrook, *Brom.*
  8. ALNE. Alne Hills, *Purt.* i. 167.
  9. ARROW. At Studley, in a field, *Purt.* i. 167.

RANUNCULUS. *Linn.***R. circinatus**, *Sibth.**R. divaricatus*, Schrank.

- Top. Bot. 8. Syme, E. B. i. 16. 15.  
 Native; rivers, streams, pools, and canals. Locally common. P. June to August.  
 First record, Kirk, *Herb. Borrer*. About 1850.
1. TAME. Streams and pools, Sutton Park; Hill Hook near Sutton.
  2. BLYTHE. River Blythe, near Temple Balsall; Stonebridge; Earlswood; Spring Pools, near Packington; mill pool and stream near Patrick Bridge, Hampton-in-Arden; Mercote Pool, Berkswell, with large flowers and elongate peduncles.
  3. ANKER. Rye Hills, near Tamworth; canal near Burton Hastings; canal, Griff Hollows.
  4. AVON. Harborough Magna! *Bloxam*. Old canal near Rugby! *Trott.* Chadshunt Pool, *Bolton King*. Chesterton! *Brom.* Canal near Newbold-on-Avon; Stratford-on-Avon Canal, the form with large flowers and elongate peduncles.

5. LEAM. Radford Canal! *Y. and B. Canal*, Birdingbury; near Bascote Lodge.
6. SOW. River Sow, near Wyken Church, *Kirk, Herb. Bor.* Canal near Sow Waste.
8. ALNE. Pool at Wootton Wawen; canal, Wilmcote.
9. ARROW. River Arrow, near Oversley Bridge.
10. CHERWELL. Wormleighton Canal, near the Reservoir.

This occurs not infrequently in rapid streams, sometimes with *R. fluitans*, always retaining its characteristic leaves; *i.e.*, with segments in one plane, but in swift streams the leaves are more elongated.

***R. fluitans*, Lam.**

*Water Crowfoot.*

Top. Bot. 9. Syme, E. B. i. 17. 18. *R. aquatilis*, Perry, 47.  
Native; in rivers and streams. Locally abundant. P. July-August.  
First record, Ray Cat., *Ran. aquat. alb. affine Millefolium Maratrichyllum fluitans*. C. B., 1670.

1. TAME. In the River Tame and brooks that run near it, *Ray Cat.*, 1670. In the Tame near Aston Church; River Tame, Kingsbury; stream, Minworth.
2. BLYTHE. In the Blythe at Hampton-in-Arden; Little Packington; Coleshill; in the Cole, Bacon's End, near Coleshill, with very large contiguous petals.
3. ANKER. In the Anker near Bole Hall and Shuttington; Ashby Canal, near Burton Hastings.
4. AVON. In the Avon at Weirbridge, Stratford-on-Avon! *Perry Fl.* 47. In the Avon, Stoneleigh! *Brom.* Stream by the road from Rugby to Newbold-on-Avon.
6. SOW. Canal, Sow Waste; near Pipe's Mill, Baginton.
8. ALNE. River Alne near Aston Cantlow; stream near Preston Bagot.
9. ARROW. In the Arrow near Washford Bridge.

Two distinct forms occur in the county, one a very robust plant with large flowers, the other a slender plant with smaller flowers and petals not contiguous. Receptacle always more or less hispid in the young state.

***R. pseudo-fluitans*, Bab.**

Top. Bot. 8. Syme, E. B. i. 20.  
Native; rivers, streams, and canals. Rare. P. June to August.  
First record, Bromwich, Botanical Exchange Club Report, 1868.

2. BLYTHE. Blythe Bridge near Solihull. Abundant.
3. ANKER. In the Anker near Shuttington.
4. AVON. Fisher's Brook near Warwick, *Brom.*
5. LEAM. Brook at Radford Semele! *Brom.* Canal near Birdingbury.
6. SOW. Pedlar's Bridge near Brinklow; Canal, Sow Waste.
7. STOUR. In the Stour near Burmington.
8. ALNE. Canal near Wilmcote; stream near Lowson Ford.

The plants from Sow Waste, Birdingbury, and Wilmcote have shorter and more rigid submersed leaves, with large flowers and elongate peduncles and habit of *R. pseudo-fluitans*. Mr. Hiern pronounced the Sow Waste plant to be his var. *sphaerospermus*. The Wilmcote plant has occasional floating leaves.

Var. *b. submersus*, Hiern.

1. TAME. Small pool near Kingsbury Wood

2. BLYTHE. Marston Green ; Butler's Wood, Maxstoke ; near Knowle Railway Station.
4. AVON. Stream near Fern Hill Wood ; small pool, Drayton, near Stratford-on-Avon.
5. LEAM. Rainsbrook, near Rugby, *Cumming*. Near Dipper's Bridge, Harbury.
6. SOW. Stream near Allesley, flowers small, with eight petals ; Fern Hill.
8. ALNE. Stream near Pinley Abbey ; stream near Brook House Farm.
10. CHERWELL. Pools near Upton House, Edge Hill.

This plant has the habit of *R. Drouetii*, but has larger flowers and is more robust.

### **R. trichophyllus, Chaix.**

Top. Bot. 7. Syme, E. B. i. 23. 21.

Native ; in pools. Rare. P. May to July.

First record, the Author, 1870.

2. BLYTHE. In a pool near the Cock, Elmdon.
4. AVON. Harborough Magna, *Bloxam*. Little Kineton.
6. SOW. Kenilworth, *Y. and B.* Near Combe Abbey.
7. STOUR. Wimpstone Fields ; near Stratford-on-Avon.
8. ALNE. Yarningale Common.
10. CHERWELL. Farnborough Fields.

### **R. Drouetil, Godr.**

Top. Bot. 7. Syme, E. B. i. 32. 20.

Native ; in streams, ditches, and pools. Local. P. May to July.

First record, Kirk, in *Herb. Borrer*.

1. TAME. Sutton Park ; small pool, Middleton Heath.
2. BLYTHE. Small pool, Elmdon ; near Packwood Windmill ; near Knowle Railway Station ; Bradnock's Marsh ; Marston Green ; Blossom Field, Solihull.
4. AVON. Pond near Brandon, *Kirk, Herb. Borrer*. Myton, *Brom.* Beausale ; Chesterton ! *Y. and B.* In a field beyond Churchover, Rugby, *Cumming*. Pool near Kineton ; near Stratford-on-Avon.
5. LEAM. Pit near Marton ; stream near Dipper's Bridge, Harbury ; pit near Thorpe Bridge, Southam.
7. STOUR. Barcheston, *Newb.* Wimpstone Fields ; Whatcote.
8. ALNE. Pool near Billesley.
9. ARROW. Stream in pasture near Arrow, and near Arrow Lane.

Var. *b. Godronii* (Gren). In pools. Very rare.

2. BLYTHE. Small pool near Elmdon.
3. ANKER. Small pool, Ansley Coalfield.
4. AVON. Grove Park ! *Brom.*
6. SOW. Small pool, The Ridings, Combe.
8. ALNE. Yarningale Common ! *Brom.* Not typical.

### **R. heterophyllus, Web. ex. p.**

Syme, E. B. i. 21. 19.

First record, the Author, 1869. Proc. Birm. Nat. Hist. Soc.

Native ; rivers, pools, streams, and canals. Local. P. May to September.

1. TAME. Sutton Park ; small pool near Minworth.
2. BLYTHE. Pool near Hampton-in-Arden.
3. ANKER. Small pool near Ansley.
4. AVON. Pool at Loxley ; pool near Compton Verney.

5. LEAM. Near Leamington. *C. Bailey, Bot. Exch. Club Report, 1879, p. 4.*
6. SOW. Sow Waste Canal! *Kirk, Herb. Brit. Mus.* Ditch near Coventry; see *Exch. Club Report, 1881.*
7. STOUR. Small pool, Barton Flat Heath, near Great Wolford.

Var. *radians*, Hiern.

1. TAME. Stream by Windley Pool, Sutton Park; Arley Wood.
2. BLYTHE. Near Solihull; Berkswell; Elmdon; Spring Pools, Packington; Green Lanes. Coleshill; Bradnock's Marsh; Hampton-in-Arden.
3. ANKER. Near Amington Hall, Tamworth; Ansley, near Bentley Park.
4. AVON. Canal near Harborough Magna. *Bloxam.*
5. LEAM. Near Birdingbury Wharf; footway from Thurlaston; with small flowers.
6. SOW. Pit between Hawkes End and Allesley; Combe Woods.
9. ARROW. Near Banum's Wood; Coughton Park.
10. CHERWELL. Pool, Farnborough Fields.

The plants here enumerated as *R. heterophyllus* have orbicular floating leaves with a straight sinus. naked on the lower surface, carpels glabrous. Those given under the name of *radians* have more coriaceous floating leaves, orbicular in outline, with radiant segments, hairy on the underside.

***R. peltatus*, Schrank.**

Syme, E. B. i. 21. 17. 18.

Native; in rivers, streams, pools, canals, &c. Local. P. May to September. First record, Kirk, *Herb. Bab.*, 1856.

1. TAME. Long Moor Mill Stream, Sutton Park; stream near New Park, Middleton; Lea Marston.
2. BLYTHE. Near Honiley, *R. L. Baker.*
3. ANKER. Marsh near Reppington; pool near Austrey Mill; Anker, above Mancetter; Oldbury Reservoir.
4. AVON. Harborough Magna, *Blox.* Chesterton. *Y. and B.*
6. SOW. Stoke Heath and Wyken Green, *T. Kirk, Herb. Bab.*
7. STOUR. Wolford Heath.

Var. *b. truncatus*, Hiern. Rare.

1. TAME. Sutton Park at Windley, Blackroot, and Bracebridge Pools; near Lea Marston.
2. BLYTHE. Earlswood Reservoir.
4. AVON. Near Hampton-on-the-Hill.
6. SOW. Honiley, *Dr. R. L. Baker.* Astley Pool.

Var. *c. floribundus* (Bab.). Common.

This occurs in every district in the county.

A form closely allied to this, but having truncate leaves, approaches closely var. *rhipiphyllus* (Hiern). This is more local than the type.

1. TAME. Water Orton, named by *Mr. Hiern.* Kingsbury; Middleton Park; Sutton Park.
2. BLYTHE. Coppice near Hampton-in-Arden; Marston Green.
8. ALNE. Stream near Bushwood, Lapworth; Yarningale Common.

Var. *d. penicillatus*, Hiern. Rare.

3. ANKER. Seas Pool, Arbury.
8. ALNE. Canal near Wilmcote.

This plant has the habit and long submersed leaves of *R. pseudo-fluitans*, but has floating leaves similar to *R. floribundus*. The peduncles are as long as those of *R. fluitans*.

**R. Lenormandi, F. Schults.**

Top. Bot. 10. Syme, E. B. i. 28. 25.

Native; in ditches and pools. Rare. P. April to September.

First record, Kirk, Topographical Botany, Ed. 1, 1858.

1. TAME. Sutton Park in all the streams and near several of the pools; ditches near Middleton.
2. BLYTHE. Balsall Street, near Berkswell; *Y. and B.* Marston Green.
4. AVON. Small pool near the Blue Boar, Dunchurch, *Cumming*.

**R. hederaceus, Linn.**

*Ivy-leaved Crowfoot.*

Top. Bot. 10. Purt. i. 262. Syme, E. B. i. 29. 26.

Native; shallow pools, streams, and wet places. Local. P. March to August.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Sutton Park; pool near Middleton.
2. BLYTHE. Barston! *Y. and B.* Coleshill; Hill Bickenhill; Marston Green; Olton Pool; Hampton-in-Arden; Berkswell; Solihull; Shirley.
3. ANKER. Quarries, Hartshill, local in this district.
4. AVON. Brandon, *Brom*. "Rare in the neighbourhood of Warwick; roadside between Hatton and Rowington," *Perry Fl.* 47. Lighthorne, *Miss Palmer*.
5. LEAM. Harbury Heath.
6. SOW. Coventry! *Y. and B.* Corley; Sow Waste.
7. STOUR. Wolford Heath near Moreton-in-the-Marsh.
8. ALNE. Yarningale Common; Lye Green.
9. ARROW. Near Alcester.

A floating form having a more robust habit, larger leaves, and five-veined petals, occurs near Coleshill. This *Mr. Hiern* pronounced to be very near *R. omiophyllus*, Ten. Lord de Tabley considers this to be true *omiophyllus*.

**R. sceleratus, Linn.**

*Celery-leaved Crowfoot.*

Top. Bot. 14. Purt. i. 258. Syme, E. B. i. 31. 27.

Native; pools, ditches, and streams. Local. A. or B. May to September.

First record, the Author, *Proc. Birm. N. H. S.*, 1869, p. 89.

1. TAME. Sutton Park; near Middleton; Walmley.
2. BLYTHE. Earlswood; Berkswell; Solihull; Coleshill; Marston Green.
3. ANKER. Frequent. Rye Hills; Shuttington; Burton Hastings.
4. AVON. Near Bilton Church, *Rugby Sch. Rep.*, 1877. Abbot's Salford, *Caswell*. Lighthorne, *Miss Palmer*.
5. LEAM. Harbury Heath; Southam; Stockton Reservoir.
6. SOW. Hopsford; Stoke Heath; Withybrook.
7. STOUR. Tredington, *Newb.* Wolford Heath.
8. ALNE. Lye Green; Yarningale.
9. ARROW. Sperrall; Coughton.
10. CHERWELL. Farnborough.

Although I find this plant in every district in the county, it is often missing over wide areas, being common in some of the districts and local in others.

**R. Flammula, Linn.** *Lesser Spearwort.*

Top. Bot. 11. Purt. i. 262. Syme, E. B. 33. 29.  
Native; in pools, marshes, heathlands. Common. P. May to September.  
First record, Ick, Analyst, 1837. Coleshill Pool!  
Common in all the districts.

**R. Lingua, Linn.** *Greater Spearwort.*

Top. Bot. 11. Syme, E. B. i. 35. 31.  
Native; in pools, canals. Very rare. P. July to September.  
First record, Freeman, Phyt. i. 262, 1842.

1. TAME. Sutton, *Freeman, Phyt. i. 262.* Sutton Park, Bracebridge, Black-root, and other pools.
3. ANKER. In a pit at Griff, near Nuneaton; by the side of an old canal, near Coventry Wood; Fir Tree Grove, Arbury Park, *Kirk, Phyt. ii. 947.*
6. SOW. In an old pit, Allesley, *W. T. Bree, Phyt. iii. 301.*
8. ALNE. Snitterfield, *Cheshire, Herb. Perry.*

**R. auricomus, Linn.** *Goldilocks. Wood Crowfoot.*

Top. Bot. 12. Purt. i. 261. Syme, E. B. i. 36. 32.  
Native; in woods and on hedge banks. Locally common. P. April-May.  
First record, T. Kirk, Top. Bot., about 1858.

1. TAME. Walmley, *Caswell.* Shustoke.
2. BLYTHE. Sheldon, *Gorle.* Maxstoke; Elmdon; Knowle, &c.
3. ANKER. Swan Lane, Nuneaton; Bole Hall; Amington; Shuttington; Bulkington.
4. AVON. Abbot's Salford, *Caswell.* Lighthorne, *Miss Palmer.*
5. LEAM. By Wappenbury and Princethorpe Woods.
6. SOW. Combe Woods; Allesley; Shilton; Willenhall.
7. STOUR. Idlicote, *Gorle.* In the Reay, Honington, *F. Townsend.* Eatington; Wolford.
8. ALNE. Kingswood; Lapworth; Bearley; Yarningale; Wawen's Moor.
9. ARROW. Coughton; Spennall; Studley; Morton Bagot; Ipsley.
10. CHERWELL. Shotswell; Warmington.

Two forms occur intermixed, and passing one into the other: a nearly apetalous form, and one with fully developed flowers.

**R. acris, Linn.** *Buttercup. Meadow Crowfoot.*

Top. Bot. 13. Purt. i. 259. Syme, E. B. i. 37. 33.  
Native; woods, banks, meadows, &c. Common. P. May to August.  
First record, Withering, Botanical Arrangement, 1801. Var. 2.

Common in all the districts.

Two varieties occur; one, supposed to be *R. Steveni*, being frequent in the sandstone districts; in the lias districts, var. *b. vulgaris* occurs not unfrequently.

**R. repens, Linn.** *Creeping Buttercup.*

Top. Bot. 13. Purt. i. 259. Syme, E. B. i. 40. 34.  
Native; in ditches, meadows, waysides, &c. Common. P. May to August.  
First record, Perry, Herb. Perry, 1812.

Common in all the districts. Two marked forms are equally abundant : the one a prostrate form, common in pastures and on waysides ; the other more robust, and often very rampant in wet places.

**R. bulbosus, Linn.**

*Buttercup.*

Top. Bot. 13. Purt. i. 259. Syme, E. B. i. 41. 35.

Native ; meadows and waysides. Common. P. May to August. .

First record, Perry, *Plantæ Selectæ*, 1820. "With full flowers, Emscote Bridge."

This has been noticed throughout the county, but is less abundant than the two foregoing.

**R. sardous, Crantz.**

*Hairy Crowfoot.*

*R. hirsutus*, Curt. Syme, E. B. i. 43. 36.

Casual in cornfields. Rare. A. June.

First record, H. Bromwich, MS.

4. AVON. Cornfields at Myton, *Brom.*

This plant, which is of uncertain appearance, has probably been introduced with foreign seeds.

**R. parviflorus, Linn**

*Small-flowered Crowfoot.*

Top. Bot. 14. Purt. i. 261. Syme E. B. i. 45. 37.

Native ; "roadsides on gravelly ditch banks." Rare. A. May-June.

First record, Perry, *Plantæ Selectæ*, 1820.

2. BLYTHE. Bickenhill, *Bree, Mag. Nat. Hist.* iii., 165.

4. AVON. Between Hampton-on-the-Hill and Norton Lindsay, *Herb. Per.* Hatton Rock, *Cheshire, Herb. Per.* Near Harborough Magna, *Blox.* Near Little Lawford Mill, *Trott.* Milverton and Ashorne ! *Brom.* Road bank at the bottom of Green Lane ; Hill Morton, *Baxter, MS.*

5. LEAM. On a hill near the canal between Bascote and Radford, *Baynes, MS.*

7. STOUR. Hedge bank by the side of road, lately enclosed between Tredington and the Fosseway, *F. Townsend.*

9. ARROW. Top of Oversley Hill ; hedge banks near Alcester Mill, *Per. Fl.* 46.

**R. arvensis, Linn.**

*Corn Crowfoot.*

Top. Bot. 15. Purt. i. 260. Syme E. B. i. 46. 38.

Colonist ; cornfields. Locally common. A. June to August.

First record, Kirk, *Topographical Botany*, 1858.

1. TAME. Meadows by Powell's Pool, Sutton Park ; Walmley.

2. BLYTHE. Marston Green ; Solihull ; Berkswell.

3. ANKER. Mancetter ; Hartshill.

4. AVON. Binton.

5. LEAM. Birdingbury ; Itchington Holt ; Southam ; Stockton.

6. SOW. Ansty ; Stoke ; Baginton.

7. STOUR. Common in Stour Basin, *Newb.* Whatcote, *Gorle.* Great Wolford ; Brailes.

8. ALNE. Claverdon ; Wootton Wawen ; Lapworth.

9. ARROW. Alcester ; Ragley.

10. CHERWELL. Warmington.

**R. Ficaria, Linn.** *Lesser Celandine. Pilewort.*

Top. Bot. 11. *Purt. i. 262.* Syme, E. B. i. 47. 39.  
Native; damp woods, meadows, banks. Common. P. March to June.  
First record, the Author, "Flora of Sutton Park."

Common throughout the county. Mr. Townsend records the var. *incumbens*,<sup>7</sup> Syme, from Warwickshire, in his excellent "Flora of Hampshire." p. 11. In very damp places a form which approaches this may be often found, but does not seem to be a constant form; this form is also recorded from Leamington, *Brom.*

**CALTHA. Linn.**

**C. palustris, Linn.** *Marsh Marigold.*

Top. Bot. 15. *Purt. i. 257.* Syme, E. B. i. 50. 40.  
Native; in ditches, marshes, &c. Common. P. March to June or later.  
More or less abundant in all the districts.  
First record, Perry, *Herb. Perry*, 1813.

Var. *b. Guerangerii* (Boreau). Rather rare.

Top. Bot. 15. Warwick.

1. TAME. Sutton Park; Middleton.
2. BLYTHE. Blythe Bridge, near Solihull. Maxstoke; Maxston Green.
3. ANKER. Marsh, near Shuttlington Bridge.
4. AVON. Burton Green, *Brom.*
5. LEAM. Radford Semele, *Brom.*
7. STOUR. Honington, *Newb.*
8. ALNE. Pinley, near Hatton, *Brom.* Stream, Preston Fields, near Preston Bagot.

A small form agreeing well with the description given in E. B. i. 51 of *C. minor*, Syme, occurred one season in Sutton Park, but has not been since noticed.

**HELLEBORUS. Linn.**

**H. viridis, Linn.** *Green Hellebore. Bear's-foot.*

(Top. Bot. 16.) *Purt. i. 264.* Syme, E. B. i. 56. 44.  
Denizen; in woods, thickets, and on hedge banks. Rare. P. March to May.  
First record, *Purt. Midland Flora*, 1817.

1. TAME. Shustoke, *Bree in Purt. iii. 363.*
3. ANKER. Near Oldbury Hall.
4. AVON. Grove Park, near Hatton! *Perry, MS.* Radway Wood, *Beesley.*  
*Gaydon. Bolton King.*
6. SOW. Allesley, *Bree, Purt. iii. 363.* Dadley's Wood, Allesley! *Kirk, Herb. Per.*
8. ALNE. Holywell, near Claverdon, 1878.
9. ARROW. In a field, near Studley Castle, *Purt. i. 264.* Banum's Wood, Morton Bagot. Abundant, 1886.

The plant appears to be truly naturalised in Grove Park and Banum's Wood.

**H. fœtidus, Linn.** *Stinking Bear's-foot.*

(Top. Bot. 17.) *Purt. i. 264.* Syme, E. B. i. 58. 45.  
Denizen; on banks, and in meadows and woods. Rare. P. March to May

First record, *Purt. Midland Flora*, 1817.

2. BLYTHE. Wood, near Packwood Church, 1888, *Miss Tonks*.
4. AVON. Lighthorne, *Miss Palmer*.
8. ALNE. On the side of a pond at Mr. Taylor's, Rowington, *Perry*. Abundant in a field near Yarningale Common, 1874.
9. ARROW. Studley Castle; Dunnington; Arrow, *Purt. i.* 265.

[\*\**Eranthis hyemalis*, Salisb.      *Winter Aconite*.

Syme, E. B. i. 55. 43.  
Alien; on banks. Very rare.

1. TAME. Near the Parsonage, Curdworth, 1873.
4. AVON. Abundantly in Stratford Churchyard, *Pratt*.
5. LEAM. In the Hall Field, Birdingbury, *Brom.*]

### AQUILEGIA. *Linn.*

**A. vulgaris**, *Linn.*      *Columbine*.

Top. Bot. 17.. *Purt. i.* 255. Syme, E. B. i. 60. 46.  
Native; in woods, thickets, and on banks. Rare. *P.* June-July.  
First record, *Purt. Midland Flora*, 1817.

1. TAME. Middleton Park! *Adcock*. New Park and Trickley Coppice, Middleton, 1882.
2. BLYTHE. Shelly Coppice, and banks of the Blythe, near Solihull.
4. AVON. Chesterton Wood, *Brom*.
6. SOW. Corley Wood, *Bree in Purt. i.* 256. Allesley, *Bree, Mag. Nat. Hist. iii.* 165; bushy field near Kenilworth, *Brom*.
8. ALNE. Banks near Henley-in-Arden; Kingswood.

[\*\**Delphinium consolida*, Br. Fl. Larkspur. *D. Ajacis*, Reichb. Syme, E. B. i. 62. 47A.

Casual in cornfields and woods, *A.* June to September.  
First record, *Purt. Midland Flora*, 1817.

5. LEAM. In a cornfield at Princethorpe, *Baynes, MS*.
6. SOW. Woods, Allesley, *Bree, Mag. Nat. Hist. iii.* 165.
9. ARROW. Studley, in the Castle Field, *Purt. i.* 255.]

### ACONITUM. *Linn.*

\*\***A. Napellus**, *Linn.*      *Monkshood*.

Syme, E. B. i. 64. 48. Alien; near streams. Rare. June.

4. AVON. Fisher's Bridge, near Warwick, *Brom*. Formerly very abundant.

[\*\**Actea spicata*, Linn.      *Herb Christopher*.

Casual; in copses, Harborough Magna, near Rugby; *Blox. MS.*, 1872.]

## ORD. II. BERBERIDEÆ.

BERBERIS. *Linn.***B. vulgaris**, *Linn.* *Barberry.*

Top. Bot. 18. *Purt.* i. 180. Syme, E. B. i. 71. 51.  
Native; in thickets, woods, and hedges. Rare. S. May-June.  
First record, Perry List, 1817.

1. TAME. Erdington, *Caswell*. Arley Village.
2. BLYTHE. Maxstoke; Berkswell.
3. ANKER. Ruins of Hartshill Priory; lane near Rye Hills, Tamworth; hedge near Shuttington Bridge; lane at Amington.
4. AVON. Leek Wootton, *Perry List*, 1817. Harborough Magna, *Blox.* Stoneleigh; Tachbrook, *Y. and B.*; Norton Lindsay, *Brom.*; near Little Lawford Mill, *Rugby Sch. Rep.*, 1878. In hedges near Bilton Hall, and on the banks of the Avon, near Holbrook Grange, *Baxt. B. F.* 115. Blakedown, *Brom.*
5. LEAM. On the top of the hill, just beyond Lillington, 1831. *Baynes, MS.*
6. SOW. Kenilworth, *Brom.*; between Leamington and Kenilworth, 1831. *Baynes, MS.*
7. STOUR. Honington, *Newb.*
8. AINE. Grafton; Billesley! *Purt.* i. 180.
9. ARROW. Oversley, Broom, *Purt.* i. 180. Ipsley! in several places. *Mathews.*

This plant, which is now very rare, has formerly been very abundant in the Arrow district, as is evidenced by Purton's note on the plant, page 180, *Midland Flora*. In some of the other districts it is probably a recent introduction.

## ORD. III. NYMPHÆACEÆ.

NYMPHÆA. *Linn.***N. alba**, *Linn.* *White Water-lily.*

Top. Bot. 19. *Purt.* i. 251. Syme, E. B. i. 76. 53.  
Native; in rivers and pools. Rare. P. July to August.  
First record, *Purt. Midland Flora*, 1817.

1. TAME. The large pool on Sutton Coldfield! *Ich, Remarkable Plants*, August, 1838. Formerly abundant in Blackroot Pool, Sutton Park, destroyed about 1876; abundant in the large pool by Middleton Hall, introduced.
2. BLYTHE. Barston Pool, in the Blythe! *Y. and B.* Springfield; Temple Balsall.
3. ANKER. In the Anker, near Tamworth! *J. Power, MSS.* Merivale Park.
4. AVON. River Avon, Wolston Mill, *Trott*, 1870.
9. ARROW. In a pond at Ragley, *Purt.* i. 231.

This plant has probably been introduced in several of the above-mentioned stations, as at Sutton, Middleton, Barston, and Springfield.

NUPHAR. *Sm.***N. luteum, Sm.***Yellow Water Lily. Water-can.*

Top. Bot. 20. (*Nymphaea*), *Purt. i.* 251. *Syme, E. B. i.* 78. 54.  
Native; rivers, pools, and canals. Locally common. *P.* June to August.  
First record, Ick, *Analyst.* 1837.

1. TAME. Lane from Nechells Green to Washwood Heath, *Ick, Anal.* 1837.  
River Tame at Aston, and other places in its course.
2. BLYTHE. In ponds and pits near Blythe Bridge, Solihull; in the Cole,  
near Coleshill; Temple Balsall.
3. ANKER. In the River Anker, near Tamworth; Alvecote; and Shuttington;  
in the canal, Burton Hastings; and Atherstone.
4. AVON. The Dene, near Kineton, *Bolton King*; in the Avon, near  
Stratford-on-Avon; Binton; and Bidford; stream, by the road from  
Rugby to Newbold-on-Avon.
5. LEAM. Dipper's Bridge, near Harbury; River Leam, near Leamington;  
Stockton.
6. SOW. Pool near Astley Castle; River Sow, near Sow Village.
7. STOUR. Abundant in the Stour, above and below Honington, *F. Towns-*  
*end.* *Burmington, &c.*
8. ALNE. River Alne, near Aston Cantlow; Wootton Wawen; stream,  
Lowson Ford.
9. ARROW. Oversley; Ragley.
10. CHERWELL. Canal, near Wormleighton.

The popular name, *Water-can*, is from the half-unfolded leaves, floating on the  
water, resembling cans, *Purt. Mid. Flora*, *Obs.* page 251.

## ORD. IV. PAPAVERACEÆ.

PAPAYER. *Linn.*[\*\* *P. somniferum*, *Linn.**The Garden Poppy.*

*Purt. i.* 250. *Syme, E. B. i.* 82. 57.  
Casual; waste places and cornfields. Rare. *A.* June.  
First record, *Baxter*, 1831.

2. BLYTHE. Waste heaps, in Whey-porridge Lane, Solihull.
4. AVON. Cornfields, near the road from Rugby to Barby, 1831; roadside,  
going to Dunchurch; also one mile from Rugby, *Baxter*; in cornfields,  
*Myton, Brom.*]

**P. Rhœas, Linn.***Common Red Poppy.*

Top. Bot. 22. *Purt. i.* 250. *Syme, E. B. i.* 87. 58.  
Colonist; cornfields, and occasionally waysides. Abundant in most of the  
districts, apparently local in the Anker basin. *A.* June to August.  
First record, Rugby School Rep., 1868.

Var. *b. strigosum* (Boenn).

In cornfields. Rare.

4. AVON. Myton and Milverton. *Brom. Exch. Club Rep.*, 1877, page 13.

"*P. dubium*, L. var., railway bank, Milverton, Warwickshire, July, 1888, *H. Bromwich*, is *P. Rheas* var. *levigatum*, not *dubium*, J. G. Baker. In the 'Prodromus' there is included a Caucasian plant, *P. levigatum*, M. Bieb., which Marshall a Bieberstein first described in Fl. Tr. Cauc. vol. iii. 364, 1819, as '*P. capsulis oblongis calycibusque glabris, caule multifloro setis rarissimis subhispidis. foliis pinnatifidis incisus subpilosis.*' He gives *dubium* as its ally, to which, rather than to *P. Rheas*, L., I should have referred it. I do not remember seeing it recorded as a British casual before." G. C. Druce, Exch. Club Rep., 1888, p. 199.

**P. dubium, Linn.** *Long-headed Poppy.*

Top. Bot. 22. Purt. iii. 48. Syme, E. B. i. 89. 59.  
Colonist; in cornfields and on banks and waysides. Common throughout the county. A. June to August.  
First record, Ick, Anal. 1837, near Aston Church!

**Var. *b. Lecoqii* (Lamot.).**

Syme, E. B. i. 90. 60. Top. Bot. 22.  
Colonist; in cornfields, on lias and marly soils. Rare. A. June to August.  
First record, Bromwich, Report Botanical Exchange Club, 1868.

4. AVON. Whitnash. *Y. and B.* Burton Bassett, Moreton Morrell.
5. LEAM. Ashorne, Upton, Cubbington. *Brom.*; near Long Itchington.
6. SOW. Kenilworth, *Y. and B.*
7. STOUR. Railway bank one mile from Shipston-on-Stour, Honington Hall Grounds, Tredington, *Newb.*
10. CHERWELL. Avon Dassett, *Brom.*

The characters by which this variety is distinguished are so slight that it has probably been frequently overlooked in the county.

**P. Argemone, Linn.** *Prickly-headed Poppy.*

Top. Bot. 22. Purt. i. 250. Syme, E. B. i. 91. 61.  
Colonist; on dry banks and in cultivated fields. Locally common. A. June to August.  
First record, Bree, Mag. Nat. Hist. 1830.

1. TAME. Sutton Park; Middleton; Witton; Water Orton.
2. BLYTHE. Marston Green; Solihull.
3. ANKER. Nuneaton; fields near Hartshill.
4. AVON. Myton, *Y. and B.*
5. LEAM. Fields near Upton; banks, Eathorpe; Marton.
6. SOW. Fields, Binley, and Stoke; Baginton; Willenhall.
7. STOUR. Rectory Gardens, Shipston-on-Stour; and near Great Wolford.
8. ALNE. Claverdon, *Bree Mag. Nat. Hist.* iii. 165. Wilmcote.
9. ARROW. Field by Coughton Park.
10. CHERWELL. Field at Avon Dassett.

[\*\* *Meconopsis cambrica*, Vig., the *Welsh Poppy*, occurs as a waif or outcast from cultivation. Established on old walls, Warwick, *Herb. Per.* On Stone walls, escape, near Rowington Hall, 1869.]

**CHELIDONIUM. Linn.**

**C. majus, Linn.** *Greater Celandine.*

Top. Bot. 23. Purt. i. 252. Syme, E. B. i. 99. 67.

Denizen; on banks near villages. Locally common. P. May to July.  
First record, Dr. Lloyd, Herb. Perry, 1835.

1. TAME. Sutton; Fillongley; Arley; Water Orton; Shustoke.
2. BLYTHE. Marston Green; Hockley, near Knowle; Coleshill.
3. ANKER. Nuneaton; Stockingford; rare in this district.
4. AVON. Whitnash; Wootton, *Y. and B.* Chadshunt, *Bolton King*.  
Tachbrook, *Miss Palmer*. Stratford-on-Avon; woods near Radway,  
Edge Hill, 1867.
5. LEAM. Marton Village.
6. SOW. Corley; Allesley.
7. STOUR. Blackwell, Honington, *Newb.*
8. ALNE. Burford Lane, near Spennall.
9. ARROW. Ipsley, *Slatter*. Upper Spennall.
10. CHERWELL. Shotswell; near Warmington Church.

## ORD. V. FUMARIACEÆ.

### CORYDALIS.

\* *C. lutea*, DC. *Yellow Fumitory.*

Syme, E. B. i. 102. 69. (*Fumaria*).  
Alien; on old walls. Rare. P. May-June.  
First record, Perry List, 1817.

1. TAME. On an old wall, Edgbaston Lane, *Ick, Anal.*, 1837.
2. BLYTHE. Abundant on churchyard wall, Maxstoke, 1869, introduced from  
Allesley; old wall, Baker's Lane, near Knowle.
4. AVON. On walls, Mellus Lane, Warwick, *Perry List*, 1817. St. Mary's  
Churchyard, Warwick, *Per. Fl.* Under a wall at Abbot's Salford, *Herb.*  
*Perry*. Tachbrook, *Brom.*
6. SOW. Kenilworth, *Y. and B.*
7. STOUR. Old garden wall at Tredington! and on walls of old kitchen  
garden, Honington! *Newb.*
8. ALNE. Pinley, *Brom.* Old wall, near Henley-in-Arden.

[\*\* *C. bulbosa*, DC., is recorded as occurring abundantly in the neighbour-  
hood of Studley Castle. *Purt.* iii. 39. Near the middle gate, in a lane  
from Guy's Cliff to the Woodloes, *Perry, MSS.* Merely occurs as an  
escape from cultivation.]

*C. claviculata*, DC. *Climbing Fumitory.*

Top. Bot. 24. Syme, E. B. i. 103. 70.  
Native; woods and banks. Rare. A. June to August.  
First record, Perry List, 1817. *Fumaria claviculata*.

- 1 TAME. Gravelly Hill; Erdington., *Per. List*, 1817. Sutton Park, in  
Lower Holly Hurst; Aston Lane, near Witton Lane, abundant, 1876,  
now destroyed by building operations, 1880.

### FUMARIA. Linn.

*F. pallidiflora*, Jord. *Pale-flowered Fumitory.*

Top. Bot. 25. Syme, E. B. i. 105. 71.

Colonist; on banks in marly soils. Rare. A. May-June.  
First record, the Author, iv. Midland Naturalist, iv. 125, 1881.

LEAM. Near Bishop's Itchington, *Brom.*, 1872.

6. SOW. Coventry, *Brom.*

**F. confusa, Jord.**

Top. Bot. 26. Syme, E. B. i. 107. 73.

Colonist; cultivated fields and waste places. Rare. A. June to August.

First found by the Author, August, 1874.

2. BLYTHE. Field and waste heap, lane from Henfield, near Knowle, to Temple Balsall.

4. AVON. On the roadside by a rubbish heap, beyond Bilton, *Rugby Sch. Rep.*, 1875. Identified by the Rev. A. Bloxam.

**F. muralis, Sonder.**

Top. Bot. 26. Syme, E. B. i. 108. 74.

Colonist; hedge banks and cultivated places. Rare. A. June to August.

First record, Bloxam, Topographical Botany, Ed. 1.

1. TAME. Hedges in the Harborne Road, Edgbaston; abundant, 1872.

4. AVON. A weed in the Rectory ground, Harborough Magna, *Blox. Garden weed at Myton, Brom.*

**F. officinalis, Linn.**

*Common Fumitory.*

Top. Bot. 26. Purt. i. 325. Syme, E. B. i. 110. 76.

Colonist; cultivated fields, heathlands. Common, and generally distributed.  
A. May to August.

First record, Ick, Analyst, 1837. Aston, Nechells Green.

A rampant form, approaching the *Capreolata* forms in habit, has been picked at Shustoke; Stoke; Walton Village, Marton, &c.

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ORD. VI. CRUCIFERÆ.

CHEIRANTHUS. *Linn.*

\***C. Cheiri, Linn.**

*Wallflower. Gillyflower.*

Purt. i. 311. Syme, E. B. i. 154. 106. Comp. Cyb. 485.

Alien; old walls and ruins. Rare. P. May-June.

First record, Perry, Plantæ Selectæ, 1820. (*Cheiranthus fruticosus.*)

4. AVON. Walls at Warwick! *Per. Fl.*, 56. Walls of Stratford Church!  
*Cheshire. Herb. Per.*

6. SOW. Kenilworth! *Y. and B.*

7. STOUR. Old walls, Tredington! *Newb.*, just outside the county boundary.

8. ALNE. Wroxall Abbey walls! *Brom.*

NASTURTIIUM. *Br.***N. officinale, Br.***Watercress.*

Top. Bot. 43. *Sisymbrium Nasturtium*, *Purt.* i. 306. Syme, E. B. i. 176. 125. Native; streams and wet places. Common, and generally distributed. P. June to October.

First record, Perry, *Herb. Perry*, 1831.

Var. *b. sisifolium* (Reichb.), Koch. Syme, E. B. i. 177. Rare.

2. BLYTHE. Near Knowle Railway Station; Bradnock's Marsh, near Hampton-in-Arden.

4. AVON. Myton, *Brom.*

8. ALNE. Near Billesley Hall.

This does not seem to be more than a luxuriant state of var. *a.*

**\*N. sylvestre, Brown.***Creeping Yellow Cress.*

Top. Bot. 44. Syme, E. B. i. 179. 126.

Ambiguity; watery places.

First record, Bree, *New Botanist's Guide*, 1837.

1. TAME. Sutton; *Freeman Phyt.* i. 262. "Warwickshire, *Bree Cat.*" *New Botanist's Guide*, 181.

I believe both these records to be errors. The plant Bree intended was probably *N. palustre*, which was at one time very abundant on the shores of Coleshill Pool. He does not anywhere record *N. palustre*.

**N. palustre, DC.***Marsh Yellow Cress.*

Top. Bot. 44. *Sisymbrium terrestre*, *Purt.* i. 307. Syme, E. B. i. 180. 127. Native; rivers, pools, and wet places. Local. A. June to August.

First record, Perry List, 1817.

1. TAME. Banks of stream near Duddeston Mill, *Ich*, 1839. Rotton Park Reservoir, *Grove*; Sutton Park, sparingly, 1876.

2. BLYTHE. Shores of Coleshill Pool; Temple Balsall; near Meriden Marsh.

3. ANKER. In the Anker, Shuttington Bridge, near Tamworth.

4. AVON. Near the race stand, Warwick, *Per. List*, 1817; roadside between Haseley and Haseley Green, *Per. Fl.* 55; Shrewley Pool, muddy places in the Avon, *Y. and B.* Fernhill! Stoneleigh, *Brom.* Moist meadows, Brownsover, *Trott.* Chadshunt; Kineton, *Bolton King.* Lighthorne, *Miss Palmer.*

5. LEAM. Side of the River Leam, near Leamington! *Baynes, MSS.* Near Oldham's Mill, Leamington, *Perry, MSS.*

6. SOW. Baginton Bridge! *Per. List*, 1817. Kenilworth, *Brom.* Near Stoneleigh.

8. ALNE. Side of mill pond, near Claverdon, on the road to Warwick, 1835, *Perry List.* Canal, Lowson Ford.

9. ARROW. *Sisymbrium terrestre.* In ditches, Oversley Mill, *Purt.* i. 307.

This species has not been observed in the Stour basin, but I am convinced it will be found there.

**N. amphibium, Brown.***Great Yellow Water Cress.*

Top. Bot. 45. Syme, E. B. i. 181. 128.

Native; rivers, pools, canals, ditches. Locally common. P. June to September.

First record, Withering, Botanical Arrangement, 1787, Tamworth.

1. TAME. Near the aqueduct, Erdington Road, *Ich, Anal.*, 1837. Curdworth Bridge; Forge Mills; Castle Bromwich.
2. BLYTHE. Marston Green; canal, near Knowle; Temple Balsall; Earlswood; Stonebridge; Meriden.
3. ANKER. River Anker, near Tamworth; Shuttington; Bramcote; Weddington; Griff Hollows, &c.
4. AVON. Avon, Nicholas Meadows, Warwick, *Per. Fl.* 56. In a pond, near Alveston Church, 1823, *Perry, MSS.* Guy's Cliff; Stratford-on-Avon; Binton; Abbot's Salford.
5. LEAM. Leam near Leamington; Radford Semele; Stockton.
6. SOW. River Sow, near Sow; near Willenhall.
8. ALNE. Rowington Canal, near Claverdon; Preston Bagot.
9. ARROW. Broom; Wixford.

**BARBAREA.** *Brown.*

**B. vulgaris, Brown.** *Winter Cress. Yellow Rocket.*

Top. Bot. 43. Syme, E. B. i. 171. 120.

Native; banks, ditches, canals, &c. Common. More or less abundant throughout the county. B. May to July.

First record, Dr. Lloyd, Herb. Perry, 1835.

Var. *b. divaricata*, Lond. Cat. Rare.

3. ANKER. Abundant at Shuttington Bridge, near Tamworth.
4. AVON. Moreton Morrell, *Y. and B.* Alveston Pastures.
7. STOUR. Honington, pointed out by the *Rev. W. W. Newbould* as probably that plant.
8. ALNE. Marshy land near Lowson Ford.
9. ARROW. Abundant by the Arrow at Broom, 1885.
10. CHERWELL. Near Farnborough, in drains, abundantly.

**B. arcuata, Reichb.**

Comp. Cyb. 483. Syme, E. B. i. 172. 121.

Ambiguity; on banks of rivers and near ditches. Rare. B. June to August. First record, Bromwich, Herb. Brit. Mus., 1864.

4. AVON. Milverton, *Brom.* Chesterton! *Dr. Baker, Exch. Club Report*, 1879, p. 5. Near Tachbrook.
5. LEAM. The Leam, Leamington, 1864, *Brom. Herb. Brit. Mus.*
7. STOUR. Honington Park, pointed out by the *Rev. W. W. Newbould*.
8. ALNE. Bishopton, near Stratford-on-Avon, *Brom.*
9. ARROW. Banks of the Arrow; Broom.

"I believe the English *Barbarea arcuata* a mere variety of *B. vulgaris*, whatever the foreign one, which differs a little, may be." *W. Borrer* in a letter, October, 1850. "This opinion is so far borne out by comparing Mr. Borrer's garden plant with the wild examples sent to me labelled as *arcuata* from Worcester, Warwick, York, and Cheviotland; the wild examples being different, and apparently vulgaris." *Comp. Cyb.*, page 483.

My own opinion is that the above plant is an inconstant form or state of *B. vulgaris*.—J. E. B.

**\*\*B. stricta, Andræ.**

Syme, E. B. i. 173. 122.

Ambiguity; cultivated fields. Rare. B. July.

4. AVON. Harborough Magna, *Blox.*, 1876.\*

6. SOW. Skin yards near Kenilworth, *Brom.*, 1889.

\*This I record on the authority of the Rev. A. Bloxam. I cannot regard the plant as more than a casual in Warwickshire, or it may be a mistake in nomenclature.

**\*\*B. intermedia, Boreau.**

Syme, E. B. i. 174. 123.

Colonist; cultivated fields. Rare or overlooked. B. June.

First record, Rugby School Report, 1874.

2. BLYTHE. Cornfield near Packwood Church

4. AVON. Rugby district, *Rug. Sch. Rep.*, 1874. Fisher's Bridge near Warwick, *Brom.*

6. SOW. Cornfield near Kenilworth, *Brom.*

9 ARROW. Cornfield, Sambourn, 1886.

**[\*\*B. praecox, R. Br.**

*American Cress.*

Syme, E. B. i. 175. 124.

Alien; banks and cultivated ground. Rare or local. B. April to July.

First record, Bloxam, *New Botanist's Guide*, Sup., 1837.

1. TAME. Abundant on new railway embankment, Sutton Park, 1877-80. Introduced.

4. AVON. Near Rugby on rubbish, probably brought from a garden, *Blox. New Bot. Guide*, ii. 612. Garden weed about Myton; railway bank, Leek Wootton, *Brom.*

5. LEAM. Near Rainsbrook, *Cumming.*

6. SOW. Near Kenilworth and Coventry on railway banks, *T. Kirk, Herb. Per.* Bedworth, *Mrs. Beck.*

9. ARROW. Little Britain, near Wixford.]

Very uncertain in its appearance in the stations quoted by myself.

**ARABIS. Linn.****A. sagittata, DC.**

*Hairy Rock Cress.*

(*A. hirsuta*, L.) Top. Bot. 42. Syme, E. B. i. 168. 116.

Native? old walls. Rare. B. June.

First record, Kirk, *Herb. Perry*, 1852.

6. SOW. Old walls, Allesley, *Kirk, Herb. Per.* Believed to have been introduced by the late Rev. W. T. Bree.

7. STOUR. Honington, *Miss Townsend, Herb. Bolton King.*

**A. perfoliata, Lam.**

*Tower Cress.*

(*Turritis glabra*, Reichb.) Top. Bot. 43. Purt. iii. 369. Syme, E. B. i. 169. 119.

Native; hedge banks and road sides. Rare. B. May-June.

First record, *Turritis vulgarior*, Park. *Supra Dorsthill-hill prope Middleton in agro Warwicensi*, Ray Cat. Ed. i. 308, 1670.

1. TAME. *Supra Dorsthill-hill prope Middleton*, Ray Cat., 1670. Lane from Castle Bromwich road to Yardley, *Freeman*, *Phyt.* i. 262.
2. BLYTHE. Marston Green, near the railway station; extinct now.
4. AVON. Stoneleigh, *Kirk*, *Herb. Per.*
6. SOW. Lanes about Allesley, *Bree*, *Purt.* iii. 369. Hollyberry End, *Kirk*, *Herb. Per.*

### CARDAMINE. Linn.

#### C. amara, Linn.

*Bitter Cress.*

Top. Bot. 39. *Purt.* i. 303. Syme, E.B. i. 157. 108.

Native; marshes, drains, and pools. Local. P. April to June.

First record, Ray, Catalogue, 1670. *Nasturtium aquaticum amarum*, Park.

1. TAME. "I have observed this cress in boggy and watery places, near Middleton, Warwickshire." *Ray Cat.* Ed. i. 220. Aston, near Birmingham, *With.* Ed. 5. iii. 717. Edgbaston Pond, *Freeman*, *Phyt.* i. 262. Middleton Park; Sutton Park.
2. BLYTHE. Coleshill! Balsall, *Bree*, *Mag. Nat. Hist.* iii. 165. Shirley Heath; Honiley; Meriden.
3. ANKER. Marsh, near Shuttington Bridge; lane, above Mancetter; Hartshill Hayes; Bentley Park.
4. AVON. Harborough Magna, *Blox. MS.* On the side of the Avon, below Milverton, *Baynes*. Common about the Avon at Rugby, *Blox. MS.* *note in Purton's Flora*; Guy's Cliff, *Baynes*; Abbot's Salford, *Carwell*; Alveston, *Miss Palmer*.
5. LEAM. In a small copse, near Oldham's Mill, Leamington, 1831, *Baynes*.
6. SOW. Allesley! *Bree*, *Mag. Nat. Hist.* iii. 165. Kenilworth! *Y. and B.*
8. ALNE. River Alne, near Hoo Mill, *Purt.* i. 303. Holywell, near Lowson Ford.
9. ARROW. The Arrow, at Oversley! *Purt.* i. 303. Alcester, lane from Spennall to Morton Bagot, 1886.

#### C. pratensis, Linn.

*Cuckoo Flower. Lady's Smock.*

Top. Bot. 39. *Purt.* i. 301. Syme, E. B. i. 158. 109.

Native; moist meadows and heaths. Common. P. April to June.

First record, Ick, Anal., 1837, Garrison Lane.

Generally distributed throughout the county.

#### C. hirsuta, Linn.

*Hairy Bitter Cress. Land Cress.*

Top. Bot. 39. *Purt.* i. 302. Syme, E. B. i. 160. 110.

Native; walls, waysides. Common. A. March to September.

First record, *Cardamine impatiens altera hirsutior*. "This is very common in Warwickshire." *Ray Syn. Ed.* iii. 300, 1724.

Throughout the county.

#### C. flexuosa, With. C. sylvatica, Link Zigzag Cardamine.

Top. Bot. 40. *Purt.* i. 302. Syme, E. B. 161. 111.

Native ; ditches, woods, and waysides. Locally common. A. April to July.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park ; Middleton.
2. BLYTHE. Solihull ; Coleshill.
3. ANKER. Shuttington ; Seckington ; Birch Coppice ; Newton Regis ; Austrey ; Hartshill.
4. AVON. Binton.
5. LEAM. Southam Road, Harbury.
6. SOW. Crackley Wood ! *Y. and B.* Allesley ; Combe fields.
7. STOWE. Honington ! *Newb.* Great Wolford.
8. ALNE. Lanes about Claverdon.
9. ARROW. The Rough at Alcester Mill, *Purt.* i. 302. Spennall ; Coughton ; Wire Hill.
10. CHERWELL. Spinney, Farnborough.

**C. impatiens, Linn.** *Impatient-podded Lady's Smock.*

Top. Bot. 41. *Purt.* i. 304. Syme, E. B. i. 161. 112.  
Native ; in woods and cultivated grounds. Rare. A. May-June.  
First record, New Botanist's Guide. *Bree, Cat.*, 1837.

3. ANKER. Hartshill Wood ! *Blox. Phyt.* iii. 324. Hartshill, July, 1843, *F. Townsend, Herb. Per.*
4. AVON. Harborough Magna, *Blox.* Garden weed, Bridge End, Warwick, *Brom.*

"It has been found in Warwickshire." Syme, E. B. i. 162.

[\*\* *Alyssum incanum*, Linn. Casual, in corn and other cultivated fields, Boldmere, near Sutton, 1874. Railway banks, Sutton Park, 1877. In a field at Emscote, near Warwick, *Brom.*]

[\*\* *A. calycinum*, Linn. Casual in a field at Myton, *Brom.*]

**EROPHILA. DC.**

**E. vulgaris, DC.** *Whitlow Grass.*

*Draba verna*, L. Top. Bot. 38. *Purt.* i. 300. Syme, E. B. i. 189. 134.  
Native ; walls, roofs, and heathy waysides. Locally common. A. March to May.  
First record, Perry, *Herb. Perry*, 1813.

1. TAME. Sutton Park ; Middleton ; Arley.
2. BLYTHE. Coleshill Heath ; Great Packington ; Marston Green.
3. ANKER. Hartshill Priory ; Nuneaton Priory ; Mancetter.
4. AVON. Whitnash ; Chesterton, *Y. and B.* Abbot's Salford ! *Caswell.* Lighthorne, *Miss Palmer.* Milverton ; Warwick.
5. LEAM. Harbury ; Southam ; Marton.
6. SOW. Binley ; Wyken.
7. STOUR. Honington ; Blackwell, &c., *F. Townsend.* Idlicote ; Whatcote ; Oxhill ; Tysoe ; Cherrington ; Long Compton ; Great Wolford.
8. ALNE. Kingswood ; Claverdon ; Snitterfield.

9. ARROW. Coughton; Sperrall; Morton Bagot.  
 10. CHERWELL. Walls, Warmington; Shotswell; Farnborough; Wormleighton.

**E. præcox, DC.**

*Draba brachycarpa*. Top. Bot. 38. Syme, E. B. i. 190. 134. f. 2.  
 Native; thatched roofs, old walls. Rare. A. March to May.

2. BLYTHE. Abundant on the thatch of an old shed at Bedlam's End, 1874.  
 5. LEAM. Walls, Harbury Village, 1874.  
 6. SOW. Old wall at Kenilworth! *Dr. R. L. Baker*. Peaty grounds, the Pleasaunce, Kenilworth, *Mrs. A. Russell in Herb. Carroll. Brit. Mus.*, 1874, labelled *Draba verna*, var. *inflata*.

[\*\* *Cochlearia Armoracia*, Linn. *Armoracia rusticana*, Bab. *Horse-radish*.

Purt. i. 299. Syme, E. B. i. 183. 129.  
 Alien; river banks and waste places. Very local. P. March to July.  
 First record, Purt., Midland Flora, 1817.

1. TAME. Railway banks near Sutton; clay pits, Erdington; Water Orton.  
 2. BLYTHE. Near Coleshill; Berkswell; Earlswood.  
 3. ANKER. Weddington, on the banks of the Anker.  
 4. AVON. Between Lawford and Rugby, *Baxter, MS.* Guy's Cliff; Myton; Hatton Rock, *Brom.* Bilton, near Rugby; Stratford-on-Avon.  
 5. LEAM. Railway near Marton.  
 7. STOUR. Shipston, several places; between Stratford and Alderminster, Eatington, *Newb.* Ilmington.  
 9. ARROW. On the River Arrow near Oversley Bridge! *Purt. i.* 299.]

[\*\* *Hesperis matronalis*, L. *Dame's Violet*.

Syme, E. B. i. 150. 103.  
 Casual; river banks. Rare. P. June.  
 First record, Perry, MS.

2. BLYTHE. Packwood, *Miss Tonks*.  
 4. AVON. Emscote, canal bank, *Brom.*; doubtfully wild in enclosure, Bilton Road, *Rugby School Rep.*, 1877. Avon side near Stratford-on-Avon.  
 5. LEAM. Between the mill and River Leam, Leamington, *Perry, MS.*  
 7. STOUR. In several places by the Stour, from Tib Bridge to below Tredington; quite naturalised. I have known it abundant for thirty years in many places on both sides of the Stour. *F. Townsend in litt.*]

**SISYMBRIUM. Linn.**

**S. Thallanum, Gay.** *Thale Cress.*

*Arabis thaliana*, L. Top. Bot. 41. Purt. i. 311. Syme, E. B. i. 163, 115.  
 Native; roadsides, walls, and fields. Common. A. March to May.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Middleton.  
 2. BLYTHE. Solihull; Coleshill.

3. ANKER. Shuttington, &c.
4. AVON. Warwick, &c.
5. LEAM. Walls, Birdingbury; Marton.
6. SOW. Coventry; Allesley; Willenhall.
7. STOUR. Great Wolford; Tysoe.
8. ALNE. Claverdon; Snitterfield.
9. ARROW. Coughton; Sambourn; Oversley, *Purt.* i. 311. Studley.
10. CHERWELL. Stone walls, Farnborough, Shotswell.

**S. officinale, Scop.** *Erysimum officinale*, Linn. *Hedge Mustard.*

Top. Bot. 45. *Purt.* i. 304. Syme, E. B. i. 143. 96.  
 Native; banks, roadsides, &c. Common. P. May to September.  
 First known record, the Author, Flora of Sutton Park, 1876.  
 Throughout the county.

**S. Sophia, Linn.** *Flixweed.*

- Top. Bot. 46. *Purt.* i. 308. Syme, E. B. i. 145. 98.  
 Native; old walls and rubbish heaps. Rare. A. June.  
 First record, *Purt.*, Midland Flora, 1817.
2. BLYTHE. In a brickyard at Bedlam's End.
  4. AVON. In a brickyard near Myton; railway, near Warwick; brickyard, Milverton; *Brom.*
  6. SOW. Kenilworth Castle, *Cox, Herb. Per.* Garden weed at Ansty, *Adams.*
  9. ARROW. Studley Castle, and at Dunnington, *Purt.* i. 308.

**S. Alliaria, Scop.** *Erysimum Alliaria*, Linn. *Sauce Alone. Hedge Garlic.*

Top. Bot. 47. *Purt.* i. 305. Syme, E. B. i. 146. 100.  
 Native; roadsides, banks, &c. Common. B. April to June.  
 First record, the Author, Flora of Sutton Park, 1876.  
 Common throughout the county.

**ERYSIMUM. Linn.**

**E. cheiranthoides, Linn.** *Treacle Mustard.*

- Top. Bot. 47. *Purt.* iii. 56. Syme, E. B. i. 149. 102.  
 Colonist; osier holts, fields. Rare. June-July.  
 First record, Top. Bot., Mrs. Russell.
1. TAME. Oscott College grounds, *Caswell.* Garden weed at Wylde Green.
  2. BLYTHE. Borders of shrubbery, Manor, Hampton-in-Arden! *Rogers.*
  4. AVON. Myton, *Brom.*, field in the Lawford Road, plentiful in an enclosure in the Newbold Road. *Rugby Sch. Rep.*, 1867.
  6. SOW. Kenilworth, *Brom.*

Probably of more frequent occurrence than appears from this record, but growing most frequently in gardens escapes notice.

[\*\**E. orientale*, R. Br. Waste Ground, Milverton, June, 1888, *H. Bromwich, Exch. Club Rep.*, 1888, 101.]

**\*\*Camelina sativa, Crants.** *Gold of Pleasure.*

Syme, E. B. i. 199, 141.

Casual; railway banks and fields. Rare, and of uncertain occurrence. A. May-June.

1. TAME. Var. *a. fetida*, Fries. Railway banks, Sutton Park, 1877-78.
6. SOW. Var. *b. sylvestris*. Fern Hill Woods, Brom.

**BRASSICA, Linn.**

[\**B. Napus*, Linn. *Wild Navev. Coleweed.*

Purt. i. 314. Syme, E. B. i. 133. 88.

Colonist; banks and fields, the remains of cultivation. Local. B. May to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Railway banks, Sutton Park, 1876.
3. ANKER. Weddington; Hartshill; Nuneaton.
4. AVON. Stratford-on-Avon.
6. SOW. Borders of cornfields, Kenilworth, Brom. Cornfields, Binley.
7. STOUR. Honington, *Newb.* Little Wolford.
8. ALNE. Claverdon, Preston Bagot.
9. ARROW. Arrow, hedge bank, road leading to Cookhill, Purt. i. 314. Banks of Arrow, Broom.
10. CHERWELL. Avon Dassett.]

[\**B. Rutabaga*, DC.? *Swede Turnip.*

*B. campestris*, L. Syme, E. B. i. 134. 89.

Occurs as a casual in cultivated ground.

Abundant on the new railway bank, Sutton Park, 1877. Buddbrook, near Warwick; Great Wolford, 1886; Avon Dassett, 1886; Edge Hill, near Ratley, 1887. Probably a remains from former cultivation in most instances.]

**B. Rapa, Linn.** *Wild Turnip.*

Purt. i. 315. Syme, E. B. i. 135. 90.

Colonist; fields and banks. Local. B. May to July.

First record, Dr. Lloyd, Herb. Perry, 1833.

1. TAME. Railway banks, Sutton Park.
2. BLYTHE. Marston Green, in fields.
3. ANKER. Borders of wood near Bentley Park; Nuneaton; Shuttington; Bramcote Hall.
4. AVON. Railway banks, near Warwick.
5. LEAM. Near Ufton Wood; near Harbury; Whitnash.
7. STOUR. Great Wolford, on hedge banks; near Ilmington.
8. ALNE. Billesley, near Alcester.
9. ARROW. Fields at Sambourn.
10. CHERWELL. Field at Avon Dassett.

Var. *b. sylvestris*, H. C. Watson. Rare or overlooked.

4. AVON. By Fisher's Brook, near Warwick, Brom.
5. LEAM. Near Radford Semele, Brom. Ufton.
10. CHERWELL. Near Ratley, Edge Hill.

**B. nigra, Koch.**      *Black Mustard.*

Top. Bot. 49. Purt. i. 316. Syme, E. B. i. 126. 85.  
Native; cultivated fields and roadsides. Local. A. June to September.  
First record, Purton, Midland Flora, 1817, *Sinapis nigra*, L.

3. ANKER. Canal side, near Caldecote Mill; road from Austrey to Warton.  
Very rare in this district; not more than a casual.
4. AVON. Whitnash. *Y. and B. Lighthorne, Miss Palmer.* Cawston, near Rugby, *Trott.* Cornfields, Bidford; Binton; Bilton, near Rugby.
5. LEAM. Wappenbury; cornfields, Harbury; Ufton; Radford Semele; Whitnash Pastures.
6. SOW. Cornfields, near Kenilworth.
7. STOUR. Abundant near Honington, especially near the Stour, *Newb.* Halford; Great Wolford; Barton-on-the-Heath; Lower Eatington; Tysoe.
8. ALNE. Alne End, near Great Alne; Billesley; Wilmcote.
9. ARROW. In a field at Exhall! near Rose Hall! *Purt.* i. 310. Spennall; Sambourn; Studley.
10. CHERWELL. Cornfields, Warmington; Avon Dassett.

**B. Sinapis, Visiani.**      *Common Charlock. Catlick.*

*Sinapis arvensis*, L. Top. Bot. 48. Purt. i. 309. *B. sinapistrum*, Bois.  
Syme, E. B. i. 124. 83.  
Native; fields and roadsides. Very common throughout the county. A.  
April to September.  
First record, the Author, Flora of Sutton Park, 1876.

**B. alba, Bois.**      *White Mustard.*

Top. Bot. 48. Purt. i. 310. Syme, E. B. i. 125. 84.  
Colonist; in cultivated ground. Rare. A. June to August.  
First record, Purton, Midland Flora, *Sinapis alba*, L., 1817.

3. ANKER. Bramcote Hall; Attlebury fields; Alvecote; field near Bulkington.
4. AVON. Rare about Rugby, Hill Morton, *Baxter, MSS.* Stoneleigh, *T. Kirk.* Common in turnip fields, Bilton! *Rugby Sch. Rep.*, 1877.
6. SOW. Roadside, near Worsley Bridge.
7. STOUR. Field near Great Wolford; Wimpstone Fields.
8. ALNE. Grafton, *Purt.* i. 310.
9. ARROW. Cornfields, Sambourn.

[\*\* *B. Erucastrum*, Vill., occurred as a casual on railway banks in Sutton Park in 1877, but only for one season.]

DIPLLOTAXIS. *DC.***D. tenuifolia, DC.**      *Wall Rocket.*

Top. Bot. 50. Purt. i. 308. Syme, E. B. i. 139. 93.  
Denizen; old walls, rubbish. Rare. P. June.  
First record, Purton, Midland Flora, *Sisymbrium tenuifolium*, L., 1817.

8. ALNE. Kinwarton, *Purt.* i. 308.

**D. muralis, DC.** *Wall Rocket. Sand Rocket.*

Top. Bot. 51. Syme, E. B. i. 140. 94.  
Denizen; old walls and sandy places. Rare. A. June to August.  
First record, Bromwich, Top. Bot.

4. AVON. Railway banks, Myton ! Whitnash, *Brom.*
5. LEAM. Harbury, *Brom.* Old walls, Fenny Compton.

Var. *Babingtonii*, Syme. Railway banks, Myton, and walls, Fenny Compton, with the type.

**CAPSELLA. Moench.**

**C. Bursa-pastoris, Moench.** *Shepherd's Purse.*

Top. Bot. 31. (*Thlaspi*, L.) Pur. i. 297. Syme, E. B. i. 211. 152.  
Native; fields, banks, and waysides. Very common throughout the county. A.  
March to November. Two varieties occur: (1) with entire leaves,  
(2) with pinnatifid leaves. Equally common.  
First localised record, Rugby Sch. Report, 1868.

**SENEBIERA. DC.**

**S. Coronopus, Poir.** *Swine's Cress.*

*Cochlearia Coronopus*, L. Pur. i. 299. *Coronopus Ruellii*, All. Top. Bot. 29.  
Syme, E. B. i. 221. 160.  
Native; waysides and fields. Local. A. or B. June to August.  
First record, Kirk. Top. Bot., 1858.

2. BLYTHE. Hampton-in-Arden, near Bradnock's Marsh.
4. AVON. Harborough Magna, *Blox.* Lighthorne, *Miss Palmer.* Burton Dassett, *Y. and B.* Warwick, canal bank ! *Brom.* Abbot's Salford, *Caswell.* Little Lawford, *Rugby Sch. Report*, 1887. Steeple Hill, Bidford; Binton.
5. LEAM. Princethorpe; Offchurch; Birdingbury; Ufton; Long Itchington.
6. SOW. Lane to Coventry, above Tile Hill Railway Station.
7. STOUR. Blackwell; Honington, *Newb.* Ilmington.
8. ALNE. Waysides, Billesley.
9. ARROW. Ipsley ! *T. J. Slatter.* Cold Comfort, near Alcester; Alcester Heath.
10. CHERWELL. Near Ratley, Edge Hill.

[\*\**S. didyma*, Pers., occurs as a garden weed at Myton, *Brom.* but has no claim to be considered as naturalised.]

**LEPIDIUM. Linn.**

[\*\**L. ruderales*, Linn. *Narrow-leaved Pepperwort.*

Syme, E. B. i. 214. 154.  
Casual; in fields and waste places. Rare. A. June to September.  
First record, H. Bromwich, 1876.

6. Sow. Knowle Hill, Kenilworth, introduced with skins, *Brom.* Garden weed at Ansty, *Adams.* Rick yard at Kenilworth. Introduced.]

**L. campestre, R. Br.***Mithridate Mustard.*

Top. Bot. 33. *Thlaspi*, Sib., *Purt* i. 297. Syme, E. B. i. 216. 156.  
Native; fields and waysides. Common. B. June to August.  
First record, Ick, Anal., 1837.

1. TAME. Castle Bromwich, *Ick, Anal.*, 1837. Sutton Park; Middleton; Wylde Green.
2. BLYTHE. Knowle; Solihull; Earlswood.
3. ANKER. Hartshill; Mancetter; Caldecote; &c.
4. AVON. Warwick; Bidford; Salford; Red Hill; Alveston.
5. LEAM. Princethorpe; Marton; Birdingbury; Ufton.
6. SOW. Stoke; Wyken; Combe Fields.
7. STOUR. Honington, *Newb.* Wimpstone Fields.
8. ALNE. Alne Hill; Billesley; Aston Cantlow; Lapworth Street.
9. ARROW. Ipsley; Sambourn; Morton Bagot.
10. CHERWELL. Farnborough; Avon Dassett.

**L. Smithii, Hook. *L. heterophyllum*, B. Smooth Field Pepperwort.**

Top. Bot. 32. Syme, E. B. i. 217, 157.  
Native; on heathy footways. Rare. P. June to August.  
First record, Bree, Cat. Warwickshire, New Botanist's Guide, 1835.

1. TAME. Kingsbury, *J. B. Stone*. Near Sutton Park, *Grove*.
2. BLYTHE. Temple Balsall, 1835, *Perry, MS.* Balsall Common, *Tyler, Herb. Per.* Thinly spread on heathy footways from Coleshill to Atherstone.
3. ANKER. Footways near Merivale; and Bentley.
4. AVON. Abbot's Salford, *Caswell*. Red Hill, near Alcester.

[\* **L. Draba**, Linn.]*Whitlow Pepperwort.*

Syme, E. B. i. 218. 158. Comp. Cyb. 481.  
Casual; banks and fields. Very rare. P. June-July.  
First record, the Author, Midland Naturalist, iv. 193, 1881.

1. TAME. Abundant on the border of a field near Bromford Forge, where it has been established for many years, 1878.
4. AVON. In a field at Drayton, near Stratford-on-Avon, sparingly.]

**THLASPI. Linn.****T. arvense, Linn.***Penny Cress. Treacle Mustard.*

Top. Bot. 30. *Purt* i. 297. Syme, E. B. i. 202. 144.  
Colonist; arable land, waysides and waste heaps. Local. A. May to August.  
First record, *Thlaspi Dioscoridis*, Ger. Kingsbury, Ray Catalogus, 1670.

1. TAME. Kingsbury, *Ray Cat.* 295.
2. BLYTHE. Field by roadside leading from Meriden to Stonebridge; waysides near Meriden, 1880; Bradnock's Marsh.
4. AVON. Salford, *Purt* i. 298. Saltisford, Warwick, *Perry Fl.* 54. Whitnash Fields, *Baynes, MS.*, 1831; Harborough Magna! *Blox.* Chesterton; Moreton Morrell, *Brom.* Lighthorne, *Bolton King.* Canal near Clifton, *Rugby School Rep.*, 1889, Tachbrook; near Loxley, Compton Verney; Bidford; Brandon.

5. LEAM. Birdingbury; Offchurch; Frankton; Radford Semele; Snowford Bridge, abundantly; Marton; Stockton.
7. STOUR. Wimpstone Fields, 1886.
8. ALNE. Alne Hills, *Purt.*, i. 298; Billesley.
9. ARROW. Alcester Heath, abundant, 1886.
10. CHERWELL. Farnborough Field.

(*Thlaspi perfoliatum*, Linn. Stone walls, Kineton, Warwickshire., Hooker and Arnott, Ed. 5, page 32. Is probably an error, Kynton, Gloucestershire, being possibly the locality meant by these authors. See G. S. Boulger, Linn. Proceed. xvi. 186.)

**\*Iberis amara, L. Candytuft.**

Top. Bot. 32. Syme, E. B. i. 207. 149.  
Casual; arable land. Very rare. A. July.  
First record, Kirk, *Phyt.* ii. 769.

5. LEAM. Railway bank, Marton. A casual.
6. SOW. In a ditch at Exhall, near Coventry, *T. Kirk, Phyt.* ii. 769.
8. ALNE. Field between Stratford and Bisphopton, *Cheshire, Herb Per.*

**TEESDALIA. R. Br.**

**T. nudicaulis, R. Br. Shepherd's Cress.**

Top. Bot. 31. *Purt.* i. 301. Syme, B. i. 209. 150.  
Native; banks and heathy footways. Very rare. A. May-June.  
First record, Countess of Aylesford, *Botanist's Guide*, 1805. *Iberis nudicaulis*, L.

1. TAME. Oscott College Grounds! *Caswell*. Old Chester Road, 1868.
2. BLYTHE. By the side of the road, near Packington, where it divides to Coleshill and Castle Bromwich! *Countess of Aylesford, Bot. Guide*, ii. 635. Coleshill Heath, *Purt.*, i. 301. This was still in existence as late as 1869; bank, footway from Marston Green to Elmdon, 1870; extinct in both localities now, I believe.
4. AVON. Sandstone rock, Milverton, *Perry List*, 1817. Hill Morton Road, near Rugby, *Rugby Sch. Rep.*, 1877.

**RHAPHANUS. Linn.**

**R. Rhaphanistrum, Linn. Wild Radish.**

Top. Bot. 51. *Purt.* i. 312. Syme, E. B. i. 120. 81.  
Colonist; cornfields and cultivated lands. Local. A. June to August.  
First record, Cheshire, *Herb. Perry*, 1854.

1. TAME. Walmley, *Caswell*. Near Ashfurlong House, near Sutton Coldfield; Hill, near Sutton Coldfield.
2. BLYTHE. Near Hill Bickenhill; near Coleshill; cornfield, by Chelmsley Wood; Little Packington; Bannersley Rough; Balsall Common.
3. ANKER. Gulleys Gap, near Stockingford; near Austrey.
4. AVON. Whitnash, *V. and B.* Fern Hill! *Brom.* Lighthorne, *Miss Palmer*. Stratford-on-Avon! *Cheshire*. Drayton.
6. SOW. Kenilworth; Ansty.
7. STOUR. Honington; Willington, with yellow flowers, *Newb.* Fields, Great Wolford; Easington; Barton-on-the-Heath; Lower Tysoe.
8. ALNE. Wilmcote; field, near Lowson Ford.
9. ARROW. Peafield at Dunnington.

## ORD. VII. RESEDACEÆ.

RESEDA. *Linn.*[\*\**R. alba*, *Linn.**R. suffruticulosa*, *L.* Syme, E. B. ii. 3. 163. Comp. Cyb. 485.

Casual; arable land and waste places. Rare. P. July.

4. AVON. Harborough Magna, *Blox.* Garden weed, Myton, *Brom.*6. SOW. On the ground, from which eight or ten feet of surface soil had been removed, at the New Waterworks, Coventry. *Kirk., Phyt.* ii. 709.]

A mere remains or escape from cultivation.

[\**R. lutea*, *Linn.**Wild Mignonette.*

Syme, E. B. ii. 2. 162.

Casual; waste ground and railway banks. Rare. P. June to August.

First record, Rev. Andrew Bloxam, 1874.

4. AVON. Near Rugby, *Blox.*, 1874. On the Leamington railway bank, near Rugby, *Rugby Sch. Rep.*, 1874.]

I believe both these records refer to the same station; the plant has no claim to be considered as more than a casual weed in this county.

*R. luteola*, *Linn.**Dyer's Rocket. Weld.*Top. Bot. 51. *Purt.* i. 229. Syme, E. B. ii. 4. 164.

Native; walls, roadsides, and waste ground. Local. B. June to August.

First record, *Perry List*, 1817. Unlocalised.

1. TAME. Hill, near Sutton; railway banks, Sutton Park.

2. BLYTHE. Knowle.

4. AVON. Salford, *Purt.* i. 229. Emscote, *Per. Fl.* 85. Tachbrook, *Y. and B. Chesterton! Bolton King.* Lighthorne, *Miss Palmer.* Near Little Lawford Mill! *Rugby Sch. Rep.*, 1876. Hill Morton, ballast pits, *Rugby Sch. Rep.*, 1889. Borders of Oakley Wood; Edge Hill, near Radway; near Luddington; near Bidford; Banbury Road, near Stratford-on-Avon; Burton Dassett.

6. SOW. Ruins of Kenilworth Castle.

7. STOUR. Shipston-on-Stour, road from Stratford, *Newb.* Atherstone-on-Stour.9. ARROW. On the hedge bank, in the turnpike road, at the New Inn, *Purt.* i. 229. Morton Bagot, *Slatter.*

10. CHERWELL. Near Warmington Church.

## ORD. VIII. CISTINEÆ.

HELIANTHEMUM. *Pers.**H. Chamæcistus*, *Mill.**Rock Rose.**H. vulgare*, *G.* Top. Bot. 52. Syme, E. B. ii. 10. 168.

Native; wood and banks, in marly and calcareous soils. Local. S. June to August.

First record, *Perry List*, 1817, *Cistus Helianthemum*, *L.*

4. AVON. Between Warwick and Hatton, *Perry List*, 1817. Beausale, on the top of the Scar, near Hampton Lucy, 1832, *Baynes*. Chesterton, Fullbrook, *Y. and B.* Abbot's Salford, *Caswell*. Near Chesterton Wood, *Bolton King*. Edge Hill, near Radway; Green's Grove, Hatton.
5. LEAM. Near Bascote Heath, 1832, *Baynes*, MS.
8. ALNE. Billesley; Austey Wood, near Wootton Wawen; banks, near Bearley Cross.
9. ARROW. Near Rose Hall; Exhall; Oversley Wood; Wixford.
10. CHERWELL. Near Ratley, Edge Hill.

ORD. IX. VIOLARIEÆ.

VIOLA. *Linn.*

*V. palustris*, *Linn.* Marsh Violet.

Top. Bot. 53. *Purt.* ii. 416. *Syme*, E. B. ii. 13. 170.  
Native; damp woods, marshes, and bogs. Very local. P. April to June.  
First record, *Withering*, Botanical Arrangement, Ed. 2. 1787.

1. TAME. Bogs, on Birmingham Heath, *With.* Ed. 2. ii. 954. Sutton Park, very abundant. Hill Wood, near Sutton; Trickle Coppice and New Park, Middleton; Plant's Brook, Minworth.
2. BLYTHE. Bog, at Coleshill Pool, *Bree in Purt.* ii. 416. Coleshill Heath, *Bree*, *Mag. Nat. Hist.* iii. 160. Coleshill Bog; bog, at Hill Bickenhill; Chelmsley Wood, 1883; Brown's Wood, Solihull.
3. ANKER. Heathland, near Atherstone Outwoods, 1884.
6. SOW. Combe Wood, *Rugby Sch. Rep.*, 1886. Allesley.
8. ALNE. Marshy places in Haywood.

The apetalous flowers are abundant until late in the autumn, and appear to be the principal source of the seeds.

*V. odorata*, *Linn.* Sweet Violet.

Top. Bot. 54. *Purt.* ii. 415. *Syme*, E. B. ii. 14. 171.  
Native; woods and banks, in old lanes. Locally common. P. February to April.  
First record, *Perry*, *Plantæ Selectæ*, 1820, *Viola odorata*, L.

1. TAME. Lane from Sutton to Middleton; Wishaw; Arley.
2. BLYTHE. Lanes about Sheldon; Elmdon; Stonebridge; Knowle; Shirley Heath.
3. ANKER. Near Austrey; Weddington.
4. AVON. Var. *Flore incarnato*. On an old wall facing Levenhull (or Linen) Lane, Warwick, *Per. Fl.* 20. Sherborne; Wellesbourn Hastings; Compton Verney; Friz Hill.
5. LEAM. In a hedge, in Stone-quarry Field, Leamington; by the footpath, leading to Emscote, *Sm. in Per. Fl.* 20.
6. SOW. *Flore carneo* Allesley, *Bree in Purt.* iii. 377. Corley; Hopsford near Ansty.
7. STOUR. Honington, *Newb.* Lanes and pastures, Lower Easington; Ilmington; Brailes; Atherstone-on-Stour.

8. ALNE. Lane near Rowington Church ; Holywell near Claverdon.
9. ARROW. Morton Bagot ; Spennall ; Greenhill Green ; Middletown ; Wetherley ; Upper Spennall ; Ipsley.
10. CHERWELL. Near Warmington Church ; Farnborough.

Var. *b. alba* (Auct.).

1. TAME. Plant's Brook, near Minworth.
2. BLYTHE. Marston Green, *Grove*.
4. AVON. Saltisford, Warwick, *Per. Fl.* 20. In several places near Warwick, *Perry. Mag. Nat. Hist.* ii. 269. Lighthorne, *Miss Palmer*.
6. SOW. Allesley, *Bree in Purt.* iii. 377.
7. STOUR. Near Shipston-on-Stour, *Beesley, History of Banbury*, 576, 1841. Near Ilmington, *F. Townsend*.
8. ALNE. Lane near Rowington Church ; Holywell, near Claverdon.
9. ARROW. Upper Spennall.

Var. *c. permixta*, Jord. Very rare.

4. AVON. Fosseway, Compton Verney, 1884.

**V. hirta**, Linn. *Hairy Violet*.

Top. Bot. 55. Syme, E. B. ii. 17, 172.

Native ; woods and banks in marly and calcareous soils. Locally common. P. March to May.

First record, Rev. J. Gorle, 1835.

2. BLYTHE. Sheldon, 1835, *Gorle*.

4. AVON. Bidford, *Bree, Mag. Nat. Hist.* iii. 163. Roadside on the hill between Hampton-on-the-Hill and Norton Lindsay ; on a hill on the Banbury Road  $2\frac{1}{2}$  miles from Warwick, *Perry, MS.* Common at Harborough Magna, *Blox. MS.* Lighthorne, *Miss Palmer*. Common about Chadshunt, *Bolton King*. Hatton, *Brom.* Near Stratford-on-Avon on the Warwick Road ; Hatton Rock near Hampton Lucy ; lanes near Warwick ; Sherborne ; Kineton ; abundant in Chesterton Wood.

5. LEAM. Birdingbury, *Bree, Mag. Nat. Hist.* iii. 163. Bishop's Tachbrook.

6. SOW. Near Ansty, *Blox. MS.*

7. STOUR. Honington ! *Newb.* Lower Easington ; Halford.

8. ALNE. Drayton Bushes ; lane from Bearley Cross to Aston Cantlow ; lane near Wootton Wawen ; Wawen's Moor, near Henley-in-Arden.

9. ARROW. Exhall ; Old Park, near Cookhill.

10. CHERWELL. Wormleighton Reservoir.

Var. *alba*.

4. AVON. Chadshunt, *Bolton King*.

8. ALNE. Lane from Aston Cantlow to Wootton Wawen.

This plant is not recorded by Purton from Warwickshire. It occurs in several places near Alcester.

**V. sylvatica**, Fr. *Dog Violet*.

*V. Riviniana*, Rchb. Top. Bot. 56. Syme, E. B. ii. 19. 173.

Native ; woods, banks, and heaths. Common. P. April to June.

First record, Bree, *Mag. Nat. Hist.*, 1828.

This occurs throughout the county. A form with pure white flowers is recorded from near Coleshill Pool by *Bree, Mag. Nat. Hist.* i. 392. I have also found this form on Bentley Heath. A variety with large blue flowers and small leaves is occasional on sandy heaths, as at Coleshill Heath and Sutton Park. This is probably *V. flavicornis*, Forst.

**V. Reichenbachiana, Boreau.**

Top. Bot. 56. Syme, E. B. ii. 20. 174.

Native; banks and woods in marly and calcareous soils. Local. P. April to June.

First record, Kirk, Topographical Botany, 1858.

1. TAME. Lanes about Arley; Fillongley; Over Whitacre; and Hurley.
2. BLYTHE. Shirley; Bentley Heath.
3. ANKER. Seas Wood, Arbury; Bentley; Hartshill Hayes; Swan Lane, Nuneaton.
4. AVON. Abundant, Chesterton Wood; Alveston Pastures; Compton Verney.
5. LEAM. Ufton Wood, abundant; Princethorpe Wood.
6. SOW. Corley Ash.
7. STOUR. Lower Eatington; Whichford; Great Wolford; Wimpstone.
8. ALNE. Rowington; Lapworth Street; Drayton Rough Moors; Preston Bagot; Wawen's Moor, near Henley-in-Arden; Bearley; Snitterfield.
9. ARROW. Old Park, near Cookhill; lanes about Wixford and Exhall.
10. CHERWELL. Fox Cover, near Farnborough; spinney below Compton Quarry; Avon Dassett, abundant.

**V. canina, Linn.**

*Dog Violet.*

Top. Bot. 57. Syme, E. B. ii. 21. 175.

Native; heaths and heathy waysides. Local. P. April to June.

First record, the Author, *V. flavicornis*, Sm. Proc. Birm. Nat. Hist. Society. ii. 1870.

1. TAME. Heath lands, Sutton Park, very local.
2. BLYTHE. Widely distributed over Coleshill Heath; near Coleshill Pool; and Stonebridge.
3. ANKER. Heath land near Shuttington Bridge.
4. AVON. Milverton, *Y. and B.*
6. SOW. *V. lactea*. Kersley Common; Radford, near Coventry, *Kirk, Herb. Per.*
7. STOUR. Near Shipston-on-Stour; St. Dennis; Honington, *F. Townsend.*
8. ALNE. Yarnington Common.

A large form occurs on Coleshill Heath, which is similar to Mr. Kirk's specimen from Kersley Common. I think it is merely a form of *V. canina*.

**V. tricolor, Linn.**

*Heart's-ease. Wild Pansy.*

Top. Bot. 57. Syme, E. B. ii. 24. 178.

Native; cultivated land and railway banks. Locally common. A. or B. April to October.

First known record, the Author, Proceed. Birm. Nat. Hist. Society, 1869.

1. TAME. Sutton Park; Boldmere; Middleton.
2. BLYTHE. Coleshill Heath; Solihull.

3. ANKER. Nuneaton; Shuttington; Caldecote.
4. AVON. (*V. Pallouxii*, Honiley; Myton, *Y. and B.*) Lighthorne, *Bolton King*.
5. LEAM. Marton, near Southam; Upton.
6. SOW. Near Ansty; Allesley.
7. STOUR. Near the turn for Tysoe from Compton Wynates.
8. ALNE. Drayton Bushes; Billesley.
9. ARROW. Sambourn; Coughton.
10. CHERWELL. Fallow Fields, near Farnborough.

Var. *arvensis*, Murr. *Field Pansy*.

Syme, E. B. ii. 25, 179.

Native; cultivated ground, banks and waste places. Common throughout the county. A. April to midwinter.

## ORD. X. POLYGALEÆ.

### POLYGALA. *Linn.*

**P. vulgaris**, *Linn.* *Milkwort*.

Purt iii. 371. Syme, E. B. ii. 35. 185.

Native; grassy waysides and meadows. Local. P. May to September.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Grassy places, Sutton Park.
2. BLYTHE. Vars. *flore albo* and *flore carneo*. Coleshill Heath, *Bree*, *Purt*. iii. 371. Coleshill Bog, *Ich*, *Anal.*, 1837. Canal side near Solihull; lane by Shelly Coppice; near Berkswell.
3. ANKER. Atherstone Outwoods.
4. AVON. Turnpike road from Warwick to Stratford at the turn to Snitterfield! *Per. Fl.* 60.
5. LEAM. Bishop's Itchington, *Bolton King*.
6. SOW. Combe Fields; Allesley; Corley Woods.
7. STOUR. Great Wolford.
8. ALNE. Wawen's Moor; Yarningale Common; Bearley; Lapworth Street.
9. ARROW. Wire Hill; and near Alcester.

**P. oxyptera**, *Reichb.*

Syme, E. B. ii. 36. 186.

Native; very rare or overlooked. P. June.

First record, F. Townsend, Esq., in litt., 1880.

7. STOUR. Near Honington Hall; Shipston-on-Stour, *F Townsend*. Wolford Heath.

**P. serpyllacea**, *Weihe.* *Milkwort*.

Top. Bot. 61. Syme, E. B. ii. 38. 187.

Native; heaths and heathy footpaths. Common. P. April to September.

First record, the Author, *Flora of Sutton Park*, 1876. *P. depressa*, W.

1. TAME. Sutton Park, white, purple, and blue forms ; Ballard's Green, near Arley ; Arley Wood.
2. BLYTHE. Coleshill Heath ; Solihull ; Earlswood.
3. ANKER. Atherstone Outwoods ; Baddesley Ensor ; Baxterley Heath ; Hartshill.
6. SOW. Kenilworth Heath ; Sow Waste.
7. STOUR. Heath lands near Wolford Heath.
8. ALNE. Yarningale Common.
9. ARROW. Heathy pastures, Sambourn ; Middletown ; Coughton Park.

## ORD. XI. CARYOPHYLLÆ.

DIANTHUS. *Linn.*D. *Armeria*, *Linn.**Deptford Pink.*

Top. Bot. 62. *Purt.* i. 207. Syme, E. B. ii. 45. 191.  
 Native ; fields and banks. Very rare. P. July.  
 First record, Perry List, 1817.

4. AVON. Hampton-on-the-Hill, between Warwick and Norton, *Perry List*, 1817. Sent by Mr. Webb, from a hill at Sherborne, *Perry, MS.* September, 1829. Myton, *Brom.*
6. SOW. Burton Green, *Brom.*
7. STOUR. Rectory garden, Shipston, *Newb.*
9. ARROW. On a hedge bank, leading from Coughton fields to Great Alne, *Purt.* i. 208.

[\*\* *D. deltoides*, *Linn.*, occurs in a semi-wild state in Oscott College grounds, very sparingly now, but formerly abundant, *Caswell*. Roman Camp, near Chesterton, *Herb. Perry*.]

SAPONARIA. *Linn.*[\*\* *S. Vaccaria*, *Linn.*

Casual ; on the new railway banks, in Sutton Park, 1877. Borders of fields, near Waverley Woods ; Cubbington. Abundant. *Brom.*, *Herb. Perry*, 1876. Railway banks, Milverton, 1888, *H. Bromwich, Exch. Club Rep.*, 1888, 202.]

\* *S. officinalis*, *Linn.**Soap Wort.*

*Purt.* i. 208. Syme, E. B. ii. 53. 197.  
 Denizen ; banks and waste places. Rare. P. July-August.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Moxhall, *Power, MS.*
4. AVON. Naturalised in a hedge, at the corner of a field that was formerly a garden, about a quarter of a mile from Rugby, on the road to Burby. July, 1831. *Baxter, B. F.* 37. Harborough Magna, *Blox.*
9. ARROW. Hedge bank, at Dunnington, *Purt.* i. 208.

Var. *b. hybrida*, *Mill.* Beausale Common, *Brom.*

SILENE. *Linn.***S. Cucubalus**, *Wibel.* *S. inflata*, Sm. *Bladder Campion.*

Top. Bot. 64. Purt. i. 241. Syme, E. B. ii. 56. 199.  
Native; banks and fields. Local. P. June to August.  
First record, Ick, Analyst, 1837, *S. inflata*, Sm.

1. TAME. Erdington Road ! Saltley, *Ick, Anal.*, 1837. Sutton Park, Middleton; Boldmere; Witton.
2. BLYTHE. Coleshill Heath; Marston Green; Small Heath.
3. ANKER. Near Hartshill Wood. Rare in this district.
4. AVON. Cornfields, adjoining Blue Boar Lane, *Rugby Sch. Rep.* Emscote; Moreton Morrell; railway bank, near Bidford.
5. LEAM. Stockton; near Birdingbury Wharf; Fenny Compton.
7. STOUR. Tysoe Field, Lower Tysoe. Abundant.
10. CHERWELL. Avon Dassett; near Ratley, Edge Hill.

Var. *puberula*, Syme.

2. BLYTHE. Bannersley Rough, near Coleshill.
4. AVON. Moreton Morrell; Red Hill, *Brom.*
10. CHERWELL. Avon Dassett, growing with the type.

**\* S. anglica**, *Linn.* *English Catchfly.*

Top. Bot. 65. Syme, E. B. ii. 60. 202.  
Alien; sandy fields and railway banks. Rare. A. June-July.  
First record, Kirk, Herb. Perry, 1848.

1. TAME. Abundant on the new railway banks, Sutton Park, 1877-79.
2. BLYTHE. Abundant in a sandy field, below the junction of the Coleshill and Birmingham Roads. Naturalised. June, 1882. Fields, near Cornets End. Abundant.
4. AVON. Near Brandon, on the London railway bank, *Kirk, Herb. Per.*

[\*\* *S. nutans*, *Linn.* As a casual, in Oscott College grounds, *Caswell.*]

[\*\* *S. annulata*, *Thore.* Occurred for one season as a casual, on the railway banks, Sutton Park, 1877.]

**S. noctiflora**, *Linn.* *Night-flowering Catchfly.*

Top. Bot. 96. Syme, E. B. ii. 66. 209.  
Colonist; cultivated land and railway banks. Rare. A. June-July.  
First record, Baxter, MS., 1831.

4. AVON. Railway banks, near Brandon, *Kirk, Herb. Per.* In a field, near Harborough Magna, *Blox.* Cornfield, by the Blue Boar Lane, Dunchurch, *Cumming, Rugby Sch. Rep.*, 1878. *Rugby, Baxter, MS.*
9. ARROW. On the Black Lands, near Ipsley ! abundant, *Slatter.*

LYCHNIS. *Linn.***L. alba**, *Mill.* *White Campion.*

*Lychnis vespertina*, *Sibth.* Top. Bot. 67. Purt. i. 222. *Silene pratensis*,  
God. and Gr. Syme, E. B. ii. 68. 210.

Native; banks and cultivated fields. Common, and generally distributed.

B. or P. May to September.

First record, Kirk, Topographical Botany, 1858.

With purple flowers, at Marton, &c. A form occurred in 1874 on the railway banks at Brandon, in which the flowers were bisexual.

**L. diurna**, *Sibth.* *Silene diurna*, God. and Gr. *Red Campion.*

Top. Bot. 67. *Purt.* i. 222. Syme, E. B. ii. 69. 211.

Native; hedge banks and fields. Common, and generally distributed. P.

May to September.

First record, Bree. At Allesley, with white flowers, *Mag. Nat. Hist.*, 1829.

**L. Flos-cuculi**, *Linn.* *Ragged Robin.*

Top. Bot. 67. *Purt.* i. 221. Syme, E. B. ii. 71. 212.

Native; marshes and damp meadows and heaths. Common. P. May to July.

First record, Bree. With white flowers, at Coleshill, *Mag. Nat. History*, 1829.

Occurring in all the districts.

### GITHAGO, *Desf.*

**G. segetum**, *Desf.* *Agrostemma Githago*, L. *Corn Cockle.*

Top. Bot. 68. *Purt.* i. 224. Syme, E. B. ii. 74. 215.

Colonist; cornfields, rarely on railway banks. Local. A. June to August.

First record, the Author, 1866, Middleton, *Lychnis Githago*, Lam.

1. TAME. Field near Sutton Park; railway bank in Sutton Park, 1877. Near Trickley Coppice, Middleton.
2. BLYTHE. Bannersley Rough, near Coleshill; Berkswell, Temple Balsall; Earlswood; Stonebridge; Packington; Henfield.
3. ANKER. Nuneaton; cornfields, near Bramcote Hall; Seckington.
4. AVON. Warwick; Stoneleigh; Brandon; Stratford-on-Avon.
5. LEAM. Radford Semele! *Y. and B.* Harbury; Ufton.
6. SOW. Cornfields, Ansty.
7. STOUR. Honington, *Newb.*; Tysoe Fields, abundant.
8. ALNE. Henley-in-Arden; Billesley.
9. ARROW. Ipsley, *Slatter.* Sambourn.
10. CHERWELL. Cornfields, Ratley, Edge Hill.

### CERASTIUM. *Linn.*

**C. quaternellum**, *Fenzl.* *Upright Pearlwort.*

*Sagina erecta.* *Purt.* i. 103. *Moenchia erecta.* Top. Bot. 68. Syme, E. B. ii. 77. 217.

Native; heaths and heathy waysides. Rare. A. May-June.

First record, Bree, in Midland Flora, 1817.

1. TAME. Sutton Park, near Long Moor Mill Pool.
2. BLYTHE. Coleshill Heath, *Bree in Purt.* i. 104. Shores of Coleshill Pool.
3. ANKER. Atherston Outwoods; also on Annesley Coalfield, *Blox., Phyt.* iii. 324.
6. SOW. Corley Moor, and other like places, *Bree.* Kenilworth Heath, *Y. and B.*
8. ALNE. Yarningale Common! *Y. and B.*

**C. semideeandrum, Linn.** *Mouse-Ear.*

Top. Bot. 80. Purt. i. 221. Syme, E. B. ii. 81. 220.

Native; walls and dry heathy places. Rare. A. April-May.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Heathy footways, lane from Marston Green to Bickenhill; heathy footways above Coleshill Pool.

4. AVON. Wall, Vineyard Lane, Warwick, *Perry, MS.* Stone quarry, Warwick, *Brom., Herb. Per.*

8. ALNE. Kinwarton, in a field by the church, *Purt. i. 221.*

**C. glomeratum, Thuill.** *Mouse-Ear Chickweed.*

Top. Bot. 79. (*C. viscosum, L.*) Purt. i. 219. Syme, E. B. ii. 82. 221.

Native; walls, fields, and waysides. Common, and generally distributed. A. April to September.

First record, Rugby School Report, 1868.

**C. triviale, Link.** *C. vulgatum, L.* *Mouse-Ear Chickweed.*

Top. Bot. 79. Purt. i. 219. Syme, E. B. ii. 83. 222.

Native; walls, fields, and waysides. Common, and generally distributed. B. or P. April to September.

First record, Rugby School Report, 1868.

**C. arvense, Linn.** *Field Chickweed.*

Top. Bot. 79. Syme, E. B. ii. 88. 225.

Native; sandy fields and railway banks. Rare. P. May-June.

First record, Kirk, *Herb. Perry*, 1850.

2. BLYTHE. Sandy field, Coleshill Heath; sandy field, near Coleshill Pool.

4. AVON. Railway banks between Coventry and Brandon, *T. Kirk, Herb. Per.*

6. SOW. Railway banks, near Willenhall. *T. Kirk, Herb. Per.*

The Coleshill plants are the pubescent variety. In this locality it is somewhat uncertain in its occurrence, being plentiful in years when the crop is biennial, and usually absent or very sparse in quantity when the crop is an annual one.

**STELLARIA. Linn.****S. aquatica, Scop.** *Water Chickweed.*

*Malachium aquaticum*, Fries, Bab. Man. *Cerastium aquaticum*, Scop, Top. Bot. 79. Purt. i. 221. Syme, E. B. ii. 91. 227.

Native; ditches, hedge banks, damp woods. Locally abundant. P. July to October.

First record, the Author, Proc. Birm. Nat. Hist. Society, 1869.

1. TAME. Erdington; Sutton; Tyburn; Curdworth; Water Orton; Plant's Brook Reservoir; Small Heath.

2. BLYTHE. Bradnock's Marsh! Fen End, *Grove*. Knowle, railway bank.

3. ANKER. Road from Austrey to Warton; near Attlebury; Burton Hastings; Wolvey; Mancetter.

4. AVON. Banks of the Avon at Milverton, *Y. and B.* Alveston Pastures; footroad, Rugby to Brownsover.

5. LEAM. Fieldon Bridge ; River Itchen, Snowford Bridge; near Shuckburgh.
6. SOW. Stoke, near Coventry ; Canley, near Coventry ; Combe Fields ; Tile Hill.
7. STOUR. By a copse at Honington! *Newb.* Wimpstone fields ; Crimsote Fields ; Ilmington.
8. ALNE. Lane from Bearley Cross to Little Alne; Henley-in-Arden.
9. ARROW. Coughton Mill ; Ipsley Meadows ; Spennall, by the Arrow.
10. CHERWELL. Avon Dassett; Warmington.

[\* *S. nemorum*, Linn.*Wood Stitchwort.*

Purt. i. 213. Syme, E. B. ii. 93. 228.  
Casual.

"It is rather extraordinary that this plant has sprung up annually in a shady part of my garden for some years, and has not been found anywhere else in the neighbourhood." *Purt.* i. 213. Warwickshire, *Bree. Cat. N.B.G.*, 182. Mr. W. W. Newbould also pointed out this plant in the grounds of Honington Hall, on a bridge over the Stour, where it is spontaneous.]

*S. media*, Cyr.*Chickweed.*

Top. Bot. 78. *Purt.* i. 212. Syme, E. B. ii. 93. 229.

Native ; banks, walls, waysides, fields, &c. Common everywhere. A. Flowering and fruiting throughout the year.

Var. *c. neglecta* (Weih.) Rare and uncertain.

1. TAME. Banks of the Bourne, Arley.
2. BLYTHE. Solihull, near the railway station.
3. ANKER. Shuttington Bridge, near Tamworth ; Shuttington ; near Caldecote Granite Quarries.
4. AVON. Budbrook, near Warwick, *Brom.*
5. LEAM. Near Birdingbury Wharf.
8. ALNE. Holywell, near Claverdon ; Kingswood.
10. CHERWELL. Farnborough.

This always retains the large flowers with ten stamens, and is sometimes as robust as *S. aquatica*.

*S. umbrosa*, Opiz.

Top. Bot. 78. Syme, E. B. 95.

Native ; damp sandy places. Rare. P. March to September.  
First record, the Author, 1870.

2. BLYTHE. Elmdon.
6. SOW. Sandy lane. Hollyberry End, near Allesley.
7. STOUR. In many places by the Stour near Honington, *Newb.* Burton Copple, Great Wolford.
8. ALNE. Wet sandy places by the River Alne, near Aston Cantlow, 1870.

*S. Holostea*, Linn.*Greater Stitchwort.*

Top. Bot. 78. *Purt.* i. 211. Syme, E. B. ii. 96. 230.

Native ; banks, woods, pastures, &c. Common throughout the county. P.  
April to July.

First record, Rugby School Report, 1868.

**S. palustris, Retz.***Glaucous Stitchwort.*

*S. glauca*, With. Top. Bot. 78. Syme, E. B. ii. 97. 231.

Native; marshy places, lanes, and meadows. Rare. P. May to July.

First record, H. Bromwich, Herb. Perry, 1850.

4. AVON. Meadow, Hill Wootton, *Brom. Herb. Per.* Sandy lane, Milverton, *Brom.*

8. ALNE. Lye Green.

9. ARROW. Sperrall, 1884.

**S. graminea, Linn.***Lesser Stitchwort.*

Top. Bot. 79. Purt. i. 212. Syme, E. B. ii. 98. 232.

Native; banks, fields, woods, &c. Common throughout the county. P. May to August.

First record, Rugby School Report, 1868.

**S. uliginosa, Murr.***Bog Stitchwort.*

Top. Bot. 79. Purt. i. 212. Syme, E. B. ii. 99. 233.

Native; ditches, marshes, woods, &c. Rather local. P. May to August.

First record, Perry, *Plantæ Selectæ*, 1820,

1. TAME. Nchells Green, *Ich. Anal.*, 1837. Sutton Park; Water Orton; Shustoke.

2. BLYTHE. Coleshill Pool; Solihull; Earlswood; Berkswell.

3. ANKER. Hartshill; Shuttington; Rye Hills.

4. AVON. Common about Rugby, *Baxter, MS.* Ditch on the west side of the common, and at the side of a pit in one of the Packmoor fields, *Per. Fl.* 40. Newbold-on-Avon.

5. LEAM. Itchington Holt.

6. SOW. Binley; Combe Woods.

7. STOUR. Barton-on-the-Heath.

8. ALNE. Lye Green.

9. ARROW. Sperrall; Studley, &c.

10. CHERWELL. Near Farnborough.

**ARENARIA. Linn.****A. tenuifolia, Linn.***Alsine tenuifolia, Crantz.*

Top. Bot. 76. Syme, E. B. ii. 112. 243.

Native? gravelly places. Rare. A. June-July.

First record, Rev. A. Bloxam, Rugby School Report, 1874.

3. ANKER. Hoo Hill, near Polesworth, *Power, MS.*

4. AVON. Gravel pit near Lower Hill Morton, *Blax., Rugby School Rep.*, 1874.

**A. trinervia, Linn.***Sandwort.*

Top. Bot. 77. Purt. i. 215. Syme, E. B. ii. 101. 234.

Native; woods, banks, and fields. Common throughout the county. A. May to July.

First record, Ick, Remarkable Plants, 1838. Saltley.

**A. serpyllifolia, Linn.***Thyme-leaved Sandwort.*

Top. Bot. 76. Part. i. 215. Syme, E. B. ii. 102. 235.

Native; walls, banks, fields, &amp;c. Common, and generally distributed. A. June to September.

First record, Ick, Remarkable Plants, 1838. Aston.

Var. *c. leptoclados* (Guss). Local, but widely spread.

1. TAME. Sutton Park; Nether Whitacre; Arley.
2. BLYTHE. Hampton-in-Arden; Solihull; near Mercote Hall; Coleshill Heath.
3. ANKER. Walls, Hartshill Stone Quarries. Rare in this district
4. AVON. Cornfields, Tachbrook, *Y. and B.* Lias stone walls, Kineton.
5. LEAM. Heathy waysides, near Frankton Wood; Weston churchyard wall.
6. SOW. Old city walls, Coventry, *Kirk.* Old walls, Kenilworth.
7. STOUR. Honington, *Newb.* Lias walls, Brailes; Tysoe.
8. ALNE. Old walls, Claverdon.
9. ARROW. Walls, Coughton Court.
10. CHERWELL. Walls, Farnborough.

**SAGINA. Linn.****S. apetala, Linn.**

Top. Bot. 70. Syme, E. B. ii. 118. 246.

Native; old walls and sandy places. Common. A. May to September.

First record, Perry, Herb. Perry, 1812.

1. TAME. Sutton Park; Castle Bromwich; Middleton.
2. BLYTHE. Hampton-in-Arden; Solihull.
3. ANKER. Mancetter; Nuneaton.
4. AVON. Near Rugby, *Baxter, MS.* Harborough Magna, *Blox.* Frequent on brick walls about Rugby, *Rugby Sch. Rep.* Wooton, *Y. and B.* Stratford-on-Avon.
5. LEAM. Old walls, Harbury.
6. SOW. Old walls, Kenilworth.
7. STOUR. Honington, *Newb.* Gorsy land, Great Wolford; old walls, Ilmington.
8. ALNE. Old walls, Claverdon; near Preston Bagot.
9. ARROW. Wire Hill, Sambourn.

**S. ciliata, Fries.**

Top. Bot. 71. Syme, E. B. ii. 119. 247.

Native; sandy fields. Very rare. A. June-July.

First record, the Author, Topographical Botany, 1873.

1. TAME. North end of Sutton Park near the Streetley Railway Station.
2. BLYTHE. Coleshill Heath; field near Windy Arbour.

Very uncertain in both localities. Often absent for one or more seasons in the Coleshill station when the crop is an annual one.

**S. procumbens, Linn.***Procumbent Pearlwort.*

Top. Bot. 71. Part. i. 103. Syme, E. B. ii. 120. 248.

Native; heathy and sandy places, wall tops, &amp;c. Very common, and generally distributed. P. May to September.

First record, the Author, 1869. Sutton Park.

**S. nodosa**, *E. Mey.**Knotted Pearlwort.*

Top. Bot. 72. Purt. i. 223. Syme, E. B. ii. 125. 251. *Spergula*, Purt.  
 Native; marshy heathlands. Rare. P. August-September.  
 First record, Dr. Stokes, Withering's Arrangement, 1787.

1. TAME. Boggy ground, in Sutton Park! *Stokes, With.* Ed. 2. ii. 483.  
 Sutton, *Freeman, Phyt.* i. 262.
2. BLYTHE. Coleshill Heath, *Bree in Purt.* i. 223. Coleshill Pool!

**SPERGULA**. *Linn.***S. arvensis**, *Linn.**Corn Spurrey.*

Top. Bot. 73. Purt. i. 223. Syme, E. B. ii. 127. 252. 253.  
 Native; cornfields, heaths, waysides, &c. As an aggregate plant, common  
 throughout the county. A. May to September.  
 First record, Dr. Lloyd, Herb. Perry, 1837.

Var. *a. vulgaris*, Boenn. Frequent.

1. TAME. Sutton Park; Middleton.
2. BLYTHE. Coleshill; Solihull; Earlswood; Cornets End.
3. ANKER. Seckington; Shuttington; Oldbury.
4. AVON. Old Park, Warwick.
5. LEAM. Cornfields, Marton.
6. SOW. Binley; Sow Waste; Allesley; Burton Green; Baginton.
7. STOUR. Honington; Brailes; Shipston, *Newb.*
8. ALNE. Alne Hills; Rowington.
9. ARROW. Sambourn; Spennall.
10. CHERWELL. Avon Dassett.

Var. *b. sativa*, Boenn. Apparently more rare.

1. TAME. Sutton Park, on railway banks; Middleton.
2. BLYTHE. Coleshill Heath; Cornets End; Berkswell; Balsall Common.
4. AVON. Little Lawford.
6. SOW. Allesley; Binley; Meriden.
7. STOUR. Cornfields, Barton-on-the-Heath.

**LEPIGONUM**. *Fries.***L. rubrum**, *Fr. Arenaria rubra*, Linn.

*Arenaria*. Purt. i. 214. *Spergularia*. Top. Bot. 76. Syme, E. B. ii. 129.  
 254.  
 Native; fields, heaths, roadsides, and walls. Local. A. June to September.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Near Bordesley Green; canal bridge, Aston, *Ich*, 1838. Heath-  
 lands, Sutton Park; Middleton.
2. BLYTHE. Baker's Lane, near Knowle; lane from Henwood Mill to Berry  
 Hall, Solihull; Hampton-in-Arden; Cornets End, near Berkswell;  
 Maxstoke; Coleshill Heath; Packington.
3. ANKER. Wall tops and quarries, Hartshill; Mancetter; Bentley Park.

4. AVON. Milverton and Ashow, *Per. Flor.* 40. Garden weed, Ashow, *Perry, MS.* Common about Rugby, especially on the Barby and Dunchurch Road, *Baxter, MS.* Cemetery walls, Rugby, *Rugby Sch. Rep.* Bilton Allotments, *Rugby Sch. Rep.*, 1889.
5. LEAM. Near Leamington. *Baynes, MS.*
6. SOW. Kenilworth Heath; Corley Heath.
8. ALNE. Lye Green! *Y. and B.*
9. ARROW. Turnpike road to New Inn, Alcester parish, *Purt.* i. 215.

## ORD. XII. PORTULACEÆ.

[\*\* *Claytonia perfoliata*, Don., was found by Dr. Baker in the grounds of the Royal Hotel, Sutton; Crystal Palace Grounds, Sutton, *Grove*; but merely as a garden casual; as a garden weed at Aston.]

## MONTIA. Linn.

**M. fontana**, Linn., *a. repens*, Pers. *Blinks.*

Top. Bot. 173. *Purt.* i. 91. Syme, E. B. ii. 136. 259.  
Native; damp woods, marshy heaths, streams, and ditches. Very local.  
A. or P. April to August.

First record, Withering, Botanical Arrangement, 1787.

1. TAME. Hockley Pool grate, near Birmingham, *With. Ed.* 2, i. 131. Sutton, *Freeman, Phyt.* i. 192. Sutton Park.
2. BLYTHE. Marston Green; Coleshill Pool; Cornets End, near Berkswell; the Manor grounds, Hampton-in-Arden; damp pastures by Brown's Wood, near Solihull; Shirley.
3. ANKER. Stone quarries, Hartshill; Baxterley Common.
4. AVON. Hill Wootton, *Perry List*, 1817; footway to Guy's Cliff, in the first field, *Perry, MS.* Rock Mill, Emscote, 1832, *Baynes.*
6. SOW. Combe Woods; Stoke Heath.
7. STOUR. WOLFORD Wood; WOLFORD Heath.
8. ALNE. Haselor, *Rufford in Purt.* i. 91. Lye Green! *Y. and B.* Shrewley Common; near Wroxall Abbey, Sep., 1827, *Perry.*
9. ARROW. Heathy lane, Sperrall Ash to Middletown, 1886.

Var. *b. erecta*, Pers. Rare.

1. TAME. In several of the streams in Sutton Park.
2. BLYTHE. Stream near Marston Green.

## ORD. XIII. ELATINEÆ.

## ELATINE. Linn.

**E. hexandra**, DC.

Top. Bot. 62. Syme, E. B. ii. 141. 262.  
Native; in pools. Very rare. A. August.  
First record, Dr. Lloyd, Herb. Perry, 1835.

2. BLYTHE. Coleshill Pool. *Dr. Lloyd, Herb. Per.*

## ORD. XIV. HYPERICINEÆ.

HYPERICUM. *Linn.***H. Androsæmum**, *Linn.* *Tutsan.*

Top. Bot. 88. Purt. iii. 374. Syme, E. B. ii. 143. 264.  
Native; woods and hedges. Rare. P. July-August.  
First record, Bree, Midland Flora, 1821.

2. BLYTHE. Lane from Hampton-in-Arden to Knowle; lane near Whey-porridge Lane, Solihull; near Honiley.
4. AVON. In Warwick Castle Park, *Perry, MS.*
6. SOW. Woods, Meriden, *Buck in Purt.* iii. 374. Kenilworth Chase; Burton Green, *Brom.* Near Berkswell, *H. Cox.*

This plant is always thinly spread in Warwickshire, occurring as single individuals, often at long intervals, but always (so far as my own experience serves) remote from cultivation.

**H. perforatum**, *Linn.* *St. John's Wort.*

Top. Bot. 88. Purt. i. 351. Syme, E. B. ii. 148. 268.  
Native; hedge banks and woods. Common throughout the county. P. July to September.  
First record, Rugby School Report, 1868.

**H. dubium**, *Leers.* *Imperforate St. John's Wort.*

Top. Bot. 89. Syme, E. B. ii. 151. 269.  
Native; marshy places and damp woods. Local. P. July to August.  
First record, Countess of Aylesford, Botanist's Guide, 1805.

1. TAME. Railway banks, near Aston Church; Sutton Park; Walmley, near Sutton.
2. BLYTHE. Near Meriden, *Aylesford, B. G.* 637. In Mr. Digby's Plantation, Meriden, *With. Ed.* 5. iii. 816. Packington, *Freeman, Phyl.* i. 262. Boulton Wood, near Meriden; footway, near Cornets End, Berkswell; canal bank, Solihull; Olton Pool; Balsall Common; Cut-throat Wood, near Umberslade.
3. ANKER. Bentley Park, near Atherstone.
4. AVON. Between Leek Wootton Fields and Stoneleigh, *Perry, Fl.* 64. Lower Hill Morton Road, *Blax.* Hill Wootton, Chesterton, *Brom.* Near Rugby, *Rugby Sch. Rep.* Alveston Heath.
5. LEAM. Whitnash Fields, *Brom.* Near Southam; wood, near Marton Railway Station; Upton Wood; Napton Holt.
6. SOW. Near Tile Hill Wood.
7. STOUR. Whitehouse Warren, near Brailles.
8. ALNE. Wawen Moor, near Henley-in-Arden.
9. ARROW. Sperrall Ash; Alcester.
10. CHERWELL. Mollington, near Edge Hill.

In several of these localities, the form *H. maculatum*, Bab., occurs, but this is so near the type that I have not thought it needful to separate it.

**H. quadratum**, *Stokes.* *St. Peter's Wort.*

*H. quadrangulum* (L.) Top. Bot. 88. Purt. i. 353. Syme, E. B. ii. 152. 270. *H. tetrapterum*, Fries.

Native ; marshes, pool, stream, and river sides. Common. P. July-August.  
First record, Ick, Remarkable Plants, *H. quadrangulum*, 1838.

1. TAME. Garrison Lane and Castle Bromwich, *Ick*, 1838. Sutton Park ; Middleton.
2. BLYTHE. Knowle ; Bradnock's Marsh ; Mercote Hall, *Grove*. Coleshill Pool ; Bannersley Pool ; Eastcote Green.
3. ANKER. Shuttington ; Bramscote ; Seckington ; Weddington.
4. AVON. Whitnash, *Y. and B.* Alveston Heath.
5. LEAM. Marton ; Southam.
6. SOW. Sow Waste ; Combe Fields.
7. STOUR. Honington, *Newb.* Wimpstone Fields ; Tysoe.
8. ALNE. Near Preston Bagot ; Wootton Wawen.
9. ARROW. Coughton Park ; Iron Cross.
10. CHERWELL. Farnborough.

**H. humifusum, Linn.** *Trailing St. John's Wort.*

Top. Bot. 90. *Purt.* i. 353. Syme, E. B. ii. 155, 271.  
Native ; fields, heaths, and gravelly waysides. Local. P. July-August.  
First record, Perry List, 1817.

1. TAME. Arley, *Grove*. Sutton Park ; Boldmere, near Sutton, on gravelly waysides.
2. BLYTHE. Packington, *Miss Palmer*. Near Marston Green ; Knowle, *Grove*. Barston Marsh ; Coleshill Heath ; meadows, near Sheldon.
3. ANKER. Stone Quarries, Hartshill ; railway bank, Nuneaton ; Parley Park, near Atherstone.
4. AVON. Opposite Stoneleigh Lodge, *Perry List*, 1817. At the Woodloes, near Warwick ; on the turnpike road from Warwick to Leamington, *Per. Fl.* 64. Very common about Rugby, *Baxter, MS.* Lower Hill Morton Lane, and Furze Lane, *Rugby Sch. Rep.*, 1877. Tachbrook, *Brom.*
5. LEAM. Fields, at Ufton.
6. SOW. Kenilworth, *Y. and B.*
8. ALNE. Umberslade, *Grove*.
9. ARROW. King's Coughton ; Alcester Heath, *Purt.* i. 354. Heathy foot-ways, near Iron Cross.

**H. pulehrum, Linn.** *Upright St. John's Wort.*

Top. Bot. 91. *Purt.* i. 354. Syme, E. B. ii. 157, 273.  
Native ; woods, heaths, and heathy waysides. Locally common. P. June to August.  
First record, Withering's Botanical Arrangement, 1812.

1. TAME. On a sloping bank, near the wall, on the east side of Edgbaston Park, *Miss Withering, With. Ed.* 5. iii. 819. Arley ; Water Orton, *Grove*. Sutton Park ; Middleton.
2. BLYTHE. Knowle, *Grove*. Marston Green ; Coleshill Heath ; Packington ; Olton ; Fulford's Heath, and Forshaw Heath ; near Earlswood ; Clews Wood, Earlswood.
3. ANKER. Parley Park, near Atherstone ; lane, from Ryton to Anker Bridge, near Wolvey.
4. AVON. Wootton Field ; between Warwick and Hatton, *Perry List*, 1817. Lower Hill Morton, and Dunchurch Road ! *Rugby Sch. Rep.* Alveston Pastures, *Newb.* Near Brandon, 1871.

5. LEAM. Harbury Heath.
6. SOW. Baginton Park, *Perry List*, 1817.
7. STOUR. White House Warren; near Brailles, 1886.
8. ALNE. Umberslade, *Grove*. Austey Wood, near Wootton Wawen; Trap's Green, near Tanworth.
9. ARROW. Oversley! and Ragley Woods! *Purt.* i. 354. Wire Hill, Sambourn.
10. CHERWELL. Ratley, Edge Hill.

**H. hirsutum**, Linn.*Hairy St. John's Wort.*Top. Bot. 91. *Purt.* i. 353. Syme, E. B. ii. 157. 274.

Native; woods, coppices, hedges, and waysides. Locally common. P. July-August.

First record, *Perry List*, 1817.

2. BLYTHE. Eastcote, near Hampton-in-Arden, 1885.
3. ANKER. Austrey, near Tamworth; Ryton, near Bulkington; Warton; Newton Regis.
4. AVON. Wear-break Hill and Cross-of-the-Hill, Stratford; Wootton Field, &c., *Perry List*, 1817. Chesterton! *Y. and B. Salford Priors! Caswell. Chadshunt, Bolton King.* Binton; Edge Hill.
5. LEAM. Ufton Wood, *Brom.* Draycote; Birdingbury.
6. SOW. Lanes about Allesley and Corley Moor.
7. STOUR. Honington, *Newb.* Burmington; Long Compton; Great Wolford; Lower Eatington.
8. ALNE. Drayton Bushes; Bearley; Yarningale Common; Austey Wood, near Wootton Wawen; Rowington, canal bank; Lapworth Street.
9. ARROW. Oversley Wood; near Studley.
10. CHERWELL. Warmington.

**H. elodes**, Linn.*Marsh St. John's Wort.*Top. Bot. 92. *Purt.* i. 355. Syme, E. B. ii. 159. 276.

Native; bogs and marshes. Rare. P. June-July.

First record, Withering's Arrangement, 1787.

1. TAME. Birmingham Heath, *With. Ed.* 2. ii. 815. Sutton, *Freeman, Phyt.* i. 262.
2. BLYTHE. Coleshill Pool! and Bog! *Purt.* i. 355.

This plant is most abundant at Coleshill Pool, but I have never seen it elsewhere in the county; it may have occurred in Sutton Park in 1841, Freeman's date of record, but is not to be found there now.

[\*\* *H. calycinum*, Linn., is recorded from Compton Verney, near a garden.]

## ORD. XV. MALVACEÆ.

**MALVA**. Linn.**M. moschata**, Linn.*Musk Mallow.*Top. Bot. 85. *Purt.* i. 324. Syme, E. B. ii. 166. 280.

Native; hedge banks, fields, &amp;c. Local. P. June to August.

First record, Ray, Gough's Camden, 1789.

1. TAME. Edgbaston Lane, *Ick, Anal.*, 1837. Sutton, railway bank; near New Park, Middleton; Plant's Brook Reservoir; Water Orton; Arley Wood.
2. BLYTHE. Coleshill; Packington; Hampton-in-Arden; lane from Cornets End to Berkswell; Earlswood; railway between Olton and Solihull; banks near Henwood Green; near Knowle.
3. ANKER. Near Polesworth Railway Station; Hartshill; Weddington; Caldecote; Oldbury Reservoir.
4. AVON. On the road sides from Stratford! and from Kenilworth to Warwick; near Stoneleigh, *Perry List*, 1817. Hatton! *Per. Fl.*, 59. In a meadow near the Scar, Hampton Lucy, 1828, *Perry, MS.* Guy's Cliff, Emscote; *Baynes, MS.* Milverton, *Y. and B.*, rare in the Rugby district. Near Hill Morton, *Rugby Sch. Rep.* Salford Priors; Salford Bridge; Brandon.
5. LEAM. Leamington, 1831, *Baynes, MS.* Lane from Waverley Wood to Cubbington; Offchurch.
6. SOW. Railway banks between Coventry and Kenilworth; Combe Fields; railway banks between Tile Hill and Coventry.
7. STOUR. Honington Park! *Newb.* Near Long Compton; Barton-on-the-Heath; Tysoe Field.
8. ALNE. Umberslade, *Grove.* Great Alne, near the railway station; near Henley-in-Arden; Austey Wood, near Wootton Wawen; Rowington.
9. ARROW. King's Coughton! and Coughton Court, *Purt. i.* 324. Iron Cross; Oversley; Arrow Lane; Dunnington.
10. CHERWELL. Warmington; near Railey, Edge Hill.

A variety with almost entire leaves occurs in some abundance near Abbot's Salford, and near Hartshill.

**M. sylvestris, Linn.**

*Common Mallow.*

Top. Bot. 85. *Purt. i.* 323. Syme, E. B. ii. 167. 281.  
Native; hedge banks and waste places. Locally common. P. May to August.  
First record, Bree, Magazine of Nat. Hist., i. 393, 1828.

1. TAME. Sutton; Wishaw; Shustoke; Witton.
2. BLYTHE. With blue flowers, Coleshill, *Bree, Mag. Nat. Hist.*, i. 393. Marston Green; Hampton-in-Arden; Knowle.
3. ANKER. Attlebury; Newton Regis; Tamworth.
4. AVON. Brandon; Stratford-on-Avon; Warwick.
5. LEAM. Marton; Princethorpe; Ufton; Offchurch,
6. SOW. Kenilworth, &c., *Y. and B.* Allesley.
7. STOUR. Atherstone-on-Stour; Shipston-on-Stour.
8. ALNE. Rowington; Wootton Wawen; Preston Bagot; Wilmcote.
9. ARROW. Coughton; Sperrall.
10. CHERWELL. Shotteswell; Warmington; Wormleighton Reservoir.

**M. rotundifolia, Linn.**

*Dwarf Mallow.*

Top. Bot. 85. *Purt. i.* 323. Syme, E. B. ii. 168. 282.  
Native; roadsides and waste places. Local. P. May to August.  
First known record, Rugby School Report, 1868.

1. TAME. Near Middleton; Curdworth.
2. BLYTHE. Sheldon, *Gorle.* Marston Green; Hampton-in-Arden.
3. ANKER. Near the River Anker, Caldecote.
4. AVON. Milverton Village, *Brom.* Lighthorne, *Miss Palmer.* Stratford-on-Avon; Shottery; Alveston Heath; canal side, near Warwick.

5. LEAM. Princethorpe; Weston Village.
6. SOW. Kenilworth.
7. STOUR. Honington! Shipston-on-Stour! *Newb.* Ilmington.
8. ALNE. Wilmcote; Wootton Wawen.

[\*\* *Malva borealis*, Wallm., occurs as a casual near Kenilworth Mill, *Brom.*]

[\*\* *M. nicaensis*, All., also occurs in the same place; both are casuals, brought with foreign skins.]

## ORD. XVI. TILIACEÆ.

### TILIA. Linn.

#### \**T. platyphyllos*, Scop. *Large-leaved Lime.*

Syme. E. B. ii. 172. 285.

Alien or denizen? plantations. Rare. T. June.

First record, Compendium of the Cybele Britannica, 129, Warwick. *T. grandifolia*, Ehrh.

2. BLYTHE. Near the Cock Inn, at Elmdon.

6. SOW. Near Coventry, *T. Kirk*; Combe Park.

Mr. Kirk considered some of the trees of this species, near Coventry, to be native, but upon what grounds I am unable to say. All the trees that I have seen are undoubtedly planted.

#### [\* *T. vulgaris*, Hayne. *Lime Tree.*

*T. europæa*, Purst. i. 253. *T. intermedia*, Syme, E. B. ii. 173, 286, is most abundant in many of our parks and hedgerows, but is always a planted tree. Some fine examples of this tree occur near the Rectory, Sutton, and in Combe Park.]

#### *T. cordata*, Mill. *Small-leaved Lime Tree.*

Top. Bot. 87. Syme, E. B. ii. 176. 287.

Native; in woods and hedges. Rare. T. July.

First record, T. Kirk, Herb. Perry, *T. parvifolia*, Ehrh., 1854.

3. ANKER. Hartshill Hayes, two trees only observed.

4. AVON. Brandon, *T. Kirk*

6. SOW. Whitmore Park, *T. Kirk*, Herb. Perry. Beausale Common, *Brom.* Honiley, near the Boot Inn.

9. ARROW. Arrow Lane, near Alcester.

As it is almost impossible to decide what claim any of our forest trees have to be considered as native in the localities in which we find them, I am unable to decide as to whether this tree can be truly considered as wild in this county.

## ORD. XVII. LINEÆ.

RADIOLA. *Gmel.***R. linoides**, *Gmel.**All-seed Flax.*

*R. millegrana*, Sm. Top. Bot. 84. Syme, E. B. ii. 179. 288. *Linum Radiola*.  
Purt. i. 165.

Native; moist, heathy places. Rare. A. July to August.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Coleshill Pool, *Purt. i.* 165. Balsall Common.
4. AVON. Between Rugby and Hill Morton, *Baxter, MS.* Barby Road, near Rugby, *Blox. N. B. G.* 182.
6. SOW. Near Honiley, *Brom.* Near Meer End.
8. ALNE. Shrewley Common, *Brom.*

LINUM. *Linn.***L. catharticum**, *Linn.**Purging Flax.*

Top. Bot. 83. *Purt. i.* 164. Syme, E. B. ii. 181. 289.

Native; banks, waysides, and fields. Local, but widely spread. A. May to August.

First record, Perry List, 1817. Unlocalised.

1. TAME. Sutton Park; Middleton; Shustoke; Arley.
2. BLYTHE. Solihull; Earlswood; Marston Green.
3. ANKER. Birch Coppice; Austrey; Atherstone; Hartshill.
4. AVON. Lighthorne, *Miss Palmer.* Alveston Heath; near Oakley.
5. LEAM. Ufton; Birdingbury.
6. SOW. Kenilworth; Stoke Heath; Allesley; Combe Fields.
7. STOUR. Halford; Easington,
8. ALNE. Wootton Wawen; Little Alne; Lowson Ford.
9. ARROW. Ipsley, *Slatter.* Sperrall; Sambourn; Alcester.
10. CHERWELL. Shotswell.

[\*\* *L. angustifolium*, Huds., is recorded by the Rugby School Natural History Society from Hill Morton Road, near Rugby, *Report*, 1875, and Burton Dassett, *Bolton King*, but can be only a casual weed introduced with foreign seeds.]

[\*\* *L. usitatissimum*, Linn.*Flax.*

*Purt. i.* 164. Syme, E. B. ii. 184. 292.

Casual; cultivated fields and railway banks. Rare and uncertain. A. June-July.

First record, Purton, Midland Flora, 1817.

1. TAME. Railway banks, Sutton Park.
4. AVON. In the Saltisford Brickyard, Warwick, *Perry, MS.* Cornfields, Stoneleigh, *Brom.*
5. LEAM. Leamington, *Brom.*
6. SOW. Honiley; Kenilworth, *Brom.*
9. ARROW. Broom, *Purt. i.* 164.]

## ORD. XVIII. GERANIACEÆ.

GERANIUM. *Linn.*[\**G. Phaeum*, Linn.]*Dusky Crane's Bill.*

Syme, E. B. ii. 193. 294.

Alien; in woods and by roadsides. Rare. P. May-June.

First record, Perry, MS. Note, 1823.

1. TAME. Arley Wood, *Grove*. Abundant in Pool Hollies Wood, Sutton Park, as late as 1868. Roadside, near Moor Hall, Sutton, 1868. Exterminated in both stations now.
2. BLYTHE. Near Solihull, *Brightwell*. Near Bradnock's Marsh; Hampton-in-Arden.
4. AVON. Brought me from the rock at Woodloes, by *Mr. Harris*, 1823, *Perry, MS.* In a wood, near Coton House, *Kirk, Phyt.* ii. 969. Between Lawford and Dunchurch, *Rugby Sch. Rep.*, 1874.
5. LEAM. In a shrubbery, at Leamington Hastings, 1835, *Perry, MS.*
6. SOW. Exhall Lane, *Mrs. Coker Beck*.]

*G. sylvaticum*, Linn.*Wood Crane's Bill.*

Top. Bot. 94. Purton. i. 320. Syme, E. B. ii. 194. 296.

Native? in woods. Very rare. P. June.

First record, Purton, Midland Flora, 1817.

1. TAME. Wood, near Middleton, *C. Adcock*! 1866.
9. ARROW. Oversley Wood, *Purt.* i. 320.

I have carefully searched Oversley Wood, and also Middleton Woods, several times for this plant, and cannot find it in either locality. Purton had evidently never collected it in the station from whence he records it, as it was not in his herbarium when his Midland Flora was published. Adcock's plant was shown to me by the collector.

*G. pratense*, Linn.*Meadow Crane's Bill.*

Top. Bot. 95. Purton. i. 319. Syme, E. B. ii. 195. 297.

Native; meadows and roadsides. Locally common. P. June to August.

First record, Countess of Aylesford, Bot. Guide, 1805.

2. BLYTHE. Knowle, canal bank, near the locks.
3. ANKER. Meadows, near Polesworth, *Power, MS.*
4. AVON. In a meadow, below the Scar, Hampton Lucy, *Perry, MS.* Very abundant in meadows, adjoining the Avon, and by roadsides, near Rugby! Brownsover, and Newbold, July, 1831, *Baxter, Brit. Phan.* Gaydon; Lighthorne, *Miss Palmer*. Whitnash; Chesterton, *Y. and B.* Brandon; between Edge Hill and Kineton; Binton.
5. LEAM. Canal side, Radford Semele! *Baynes, MS.* Birdingbury; Wil-loughby; Snowford Bridge.
6. SOW. Allesley, *Aylesford, B. G.* 635. Combe Fields.
7. STOUR. Honington! Lambcote, *Newb.* Wimpstone; Halford; road from Shipston-on-Stour to Brailles; Easington.
8. ALNE. Temple Grafton; Little Alne; near Bearley Cross; Drayton Bushes; Henley-in-Arden, &c.
9. ARROW. Near Alcester.
10. CHERWELL. Near Ratley, Edge Hill.

Var. *alba*. Rugby, *Baxter, MS.*

**G. pyrenaleum, Linn.***Mountain Crane's Bill.*

Top. Bot. 96. Syme, E. B. ii. 196. 298.

Denizen; pastures and roadsides. Rare. P. June to August.

First record, Bree, Mag. Nat. History, 1830.

2. BLYTHE. Coleshill! *Bree, Mag. Nat. Hist.* iii. 165. Birmingham Road, near Bacon's End; Coleshill.
4. AVON. Rounsels Lane, near Kenilworth, *Perry, MS.* Myton; Tachbrook, *Y. and B.*
6. SOW. Allesley! *Bree, Mag. Nat. Hist.* iii. 165.
7. STOUR. A few plants by the Stour at Honington, probably sown with grass, *Newb.*

**G. molle, Linn.***Dove's Foot.*

Top. Bot. 98. Purt. i. 318. Syme, E. B. ii. 197. 299.

Native; banks and meadows. Common and generally distributed. A. March to September.

First record, Bree, Mag. Nat. History, 1829, var. *Flore-albo.***G. pusillum, Linn.***Small-flowered Crane's Bill.*

Top. Bot. 97. Syme, E. B. i. 198. 300.

Native; waysides and banks. Local. A. April to August.

First record, Perry, MS. August, 1828.

1. TAME. Banks on the road from Sutton to Middleton; Old Chester Road, near Tyburn.
2. BLYTHE. Sheldon, 1835, *Gorle.* Lane near Chelmsley Wood; footway through Maxstoke Park, to Coleshill.
4. AVON. Roadside near Hampton Lucy, 1828, *Perry, MS.* Myton; Milverton, *Brom.* Near Brandon on the road to Brinklow; meadows near Bishoppton, near Stratford-on-Avon; cornfields near Wellesbourne Hastings.
6. SOW. Kenilworth, *Y. and B.*
8. ALNE. Abundant on a heathy footway near Great Alne.
9. ARROW. Stone quarry near Exhall.

**G. dissectum, Linn.***Dove's Foot.*

Top. Bot. 98. Purt. i. 319. Syme, E. B. ii. 200. 302.

Native; banks and fields. Common and generally distributed. P. May to August.

First record, Ick, Anal., 1837, Castle Bromwich.

**G. columbinum, Linn.***Long Stalked Crane's Bill.*

Top. Bot. 98. Purt. i. 320. Syme, E. B. ii. 201. 303.

Native; fields, banks, and roadsides. Rare. A. June to August.

First record, Perry List, 1817.

1. TAME. A few plants at the north end of Sutton Park, on a bank bounding the road, 1877.
4. AVON. Opposite the Windmill Inn, on the Stratford Road from Warwick, *Perry List*, 1817. Moreton Morrell, *Y. and B.* Lighthorne, Wellesbourne Hastings, *Bolton King.* Road from Brandon to Brinklow; near the Cape of Good Hope, Warwick; near Stratford-on-Avon; footpath from Binton to Red Hill.

9. **ARROW.** Wixford Lane, *Purt.* i. 321. Near the Golden Cross Inn, Exhall; near Alcester, in abundance, 1887.

**G. lucidum, Linn.** *Shining Crane's Bill.*

Top. Bot. 99. *Purt.* i. 320. Syme, E. B. ii. 202. 304.  
Native; old walls and banks. Local. A. April to August.  
First record, Perry List, 1817.

1. **TAME.** Walls, near Fillongley Hall; road from Minworth to Water Orton; Arley Village.
2. **BLYTHE.** Bickenhill Village, on banks; Berkswell.
3. **ANKER.** Near Oldbury Hall.
4. **AVON.** Stank Hill; between Warwick and Longbridge, &c., *Perry List*, 1817. Hedge banks in the Basin Piece, near the brickyard, Saltisford, Warwick; in a green lane near the Racecourse, Warwick, *Per. Fl.* 58. Bilton Road, near Rugby, *Rugby Sch. Rep.* 1877. Emscote, *Baynes MS.* Ashorne Village, *Brom.* Stratford Road from Warwick, abundant, 1876.
5. **LEAM.** Banks of the Leam, Leamington, *Brom.*
6. **SOW.** Kenilworth! *Purt.* i. 320. Lanes about Allesley, abundant.
8. **ALNE.** Near Rowington Church.

Very rarely growing remote from villages, and probably in some of the stations above given an escape from cultivation.

**G. Robertianum, Linn.** *Herb Robert.*

Top. Bot. 100. *Purt.* i. 319. Syme, E. B. ii. 203. 305.  
Native; banks, walls, and waste places. Common, and generally distributed.  
B. April to September.  
First record, Bree, *Mag. Nat. Hist.* i. 393, 1828, var. *Flore-albo.*

Var. *Flore-albo.* Rare.

2. **BLYTHE.** Abundant at Springfield, Temple Balsall, on banks.
4. **AVON.** Wootton, near Warwick, *Bree, Mag. Nat. Hist.* i. 393.

[\*\**G. sanguineum*, L., *Bloody Crane's Bill*, is recorded as an escape from cultivation at Holbrook Grange, Rugby, *Rugby Sch. Rep.*, 1868.]

[\*\**G. striatum*, Linn., is also recorded as naturalised in a spinney near Rugby Mill, *Rugby Sch. Rep.*, 1867. Near Chesford Bridge, Kenilworth, *J. G. Perry*, 1829, *Herb. Per.* Coppice near the Roman Catholic College, Kenilworth, *Brom.*]

**ERODIUM.** *L'Hérit.*

**E. cicutarium, L'Hérit.** *Stork's Bill.*

Top. Bot. 94. Syme, E. B. ii. 207. 307.  
Native; fields, banks, and waysides. Rather rare. A. April to August.  
First record, Perry, *Plantæ Selectæ*, 1820.

1. **TAME.** Dry banks at Aston, *Ich, Remarkable Plants*, 1838. Slade Lane, Witton, on sandy banks; field near Erdington; gravelly banks, Sutton Park, var. *b. chaerophyllum.*

2. BLYTHE. Marston Green; Coleshill Heath, var. *a. vulgaris*.
4. AVON. In a sandy field near the aqueduct, Warwick, *Per. Fl.* 57. Emscote; Woodloes, *Brom.* Charlecote, *Brom.* Plentiful in pastures near Brandon, var. *a. vulgaris*; near Brinklow, var. *b. charophyllum*.
5. LEAM. Near Leamington, *Baynes MS.*
6. SOW. Old walls, Kenilworth, *Y. and B.*

[\**E. moschatum*, L'Hérit. *Musk Stork's Bill.*

Purt. i. 316. Syme, E. B. ii. 208. 308.  
Very rare and doubtfully native. A. or B. May.  
First record, Purton, Midland Flora, 1817.

2. BLYTHE. Near Mercote Mill Pool, Berkswell, *Brom.*
4. AVON. Scar bank, near Hampton Lucy; stone quarry, Warwick, *Brom.*
6. SOW. Near the skin yards, Kenilworth, *Brom.*
9. ARROW. Near Cookhill, on the Ridgeway, *Purt. i.* 316.]

[\*\**E. maritimum*, Sm., occurred for several seasons on a bank near Oscott College! *Caswell.* A mere escape from an adjacent cottage garden.]

## OXALIS. Linn.

**O. Acetosella, Linn.** *Wood Sorrel.*

Top. Bot. 101. Purt. i. 216. Syme, E. B. i. 211. 310.  
Native; woods and shady banks. Frequent. P. April to July.  
First record, Perry List, 1817. Unlocalised.

1. TAME. Banks, Garrison Lane, *Ick, Anal.*, 1837. Sutton Park; New Park, Middleton; Arley Wood.
2. BLYTHE. Earlswood; Shelly Coppice; Coleshill Pool.
3. ANKER. Hartshill Hayes; Grendon Wood; Birch Coppice; Bentley Park; Alvecote Wood.
4. AVON. Lane from Bilton Village to Lawford; by a copse, quarter of a mile from Bilton, *Rugby Sch. Rep.* 1876. Old Park, Warwick.
5. LEAM. Cubbington Woods; Ufton Woods, with rose-coloured flowers.
6. SOW. Combe Woods; Wainbody Wood; Allesley; Poor's Wood, Wroxall; Corley Woods.
7. STOUR. Wolford Wood; Whichford Wood.
8. ALNE. Bush Wood, Lapworth, with rose-coloured flowers. Claverdon; Drayton Rough Moors; Haywood; Dilke Lane, near Rowington.
9. ARROW. Oversley Wood; Ragley Wood; Wire Hill.

[\*\**O. corniculata*, Linn. Syme, E. B. ii. 213. 311.

Casual. In a garden at Foleshill, *Kirk, Phyt.* ii. 969. A casual, frequently escaping from cultivation.]

[\*\**O. stricta*, Linn. Syme, E. B. ii. 214. 312.

Casual. Waste ground, Arbury Hall, *Kirk, Herb. Perry.* A weed in gardens, Myton and Kenilworth, *Brom.*]

[\*\**Impatiens Noli-me-tangere*, Linn. Syme, E. B. ii. 216. 313.

Casual. Near Berkswell, *Cox, Herb. Perry.*]

## ORD. XIX. ILICINEÆ.

ILEX. *Linn.***I. Aquifolium, Linn.** *Holly.*

Top. Bot. 274. *Purt.* i. 103. Syme, E. B. ii. 219. 316.

Native; woods and hedges. Common, and generally distributed. T. May-June.

First localised record, the Author, Flora of Sutton Park, 1876.

This tree, which is frequently planted, occurs more or less abundantly throughout the county.

## ORD. XX. CELASTRINEÆ.

EUONYMUS. *Linn.***E. europæus, Linn.** *E. vulgaris, Scop.* *Spindle Tree.*

Top. Bot. 101. *Purt.* i. 131. Syme, E. B. ii. 224. 317.

Native; woods and hedges. Local. Shrub. June-July.

First record, Bree, Midland Flora, 1817.

2. BLYTHE. Coleshill, *Bree in Purt.* iii. 347.

4. AVON. Moreton Morrell, *Y. and B.* Chesterton; Lighthorne, *Brom.* Chesterton Wood; Alveston Pastures; near Brandon.

5. LEAM. Ufton Wood!

6. SOW. Hedge near Kenilworth, *Brom.*

7. STOUR. Honington, *Newb.*

8. ALNE. Near Claverdon Railway Station.

9. ARROW. Oversley Wood! Wetherley Wood, *Purt.* i. 132. Cold Comfort, near Alcester; Spennall Village.

## ORD. XXI. RHAMNEÆ.

RHAMNUS. *Linn.***R. catharticus, Linn.** *Buckthorn.*

Top. Bot. 102. *Purt.* i. 130. Syme, E. B. ii. 226. 318.

Native; woods and hedges. Locally common. Shrub. May to July.

First record, Countess of Aylesford, 1805.

2. BLYTHE. Packington, *Aylesford, B. G.* ii. 634. Coleshill, *Bree, Mag. Nat. Hist.* iii. 163. Near Knowle Railway Station.

3. ANKER. Hedges, road from Warton to Austrey, three bushes.

4. AVON. Bidford, *Purt.* i. 130. Oakley Wood towards Wellesbourne, 1831, *Baynes, MS.* Moreton Morrell, Hampton Lucy, *Y. and B.* Myton, Tachbrook, *Brom.* Bilton, *Rugby Sch. Rep.*, 1876. Lighthorne, *Bolton King.* Brandon; Drayton, near Stratford-on-Avon; abundant on the Shipston Road near Stratford-on-Avon.

5. LEAM. Radford Semele, *Per. Fl.* 22. Southam Road near Harbury ; Ufton ; Southam ; Napton ; Shuckburgh.
6. SOW. Stivichall, *Kirk, Herb. Brit. Mus.* Brinklow.
7. STOUR. Honington ! *Newb.* Upper Eatington ; Ilmington ; Tysoe ; Oxhill ; Brailes.
8. ALNE. At Langley, in the parish of Claverdon ! *Bree.* Pinley, *Kirk, Phyt.* ii. 949. Drayton Bushes ; near Henley-in-Arden.
9. ARROW. Abundant at Spennall ; Ipsley ; Oversley.
10. CHERWELL. Farnborough ; Warmington.

**R. Frangula, Linn.**

*Black Alder. Alder Buckthorn.*

Top. Bot. 102. *Purt.* i. 131. Syme, E. B. ii. 228. 319.

Native ; woods and hedges. Local. Shrub. May to July.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park ; Hill Hook ; Middleton Woods ; Shawberries Wood, Shustoke.
2. BLYTHE. Coleshill Heath ; Cut-throat Wood, Waring's Green ; Birchy Leasoes, Earlswood ; Windmill Naps, Little Ladbroke.
3. ANKER. Coventry Wood, Arbury Deer Park ! *Kirk, Phyt.* ii. 969.
4. AVON. Woodloes ! *Brom.* Woods at Hatton, *Per. Fl.* 22. Chesterton ! Oakley Wood ! *Y. and B.* Brandon.
6. SOW. Fern Hill Wood ! *Brom.* Brinklow.
8. STOUR. Grafton ; Great Alne, *Purt.* i. 131. Haywood ; Alderhanger, near Tanworth.
9. ARROW. Arrow, *Purt.* i. 131.

ORD. XXII. SAPINDACEÆ.

**ACER. Linn.**

\* *A. Pseudo-platanus, Linn. Sycamore.*

Top. Bot. 93. *Purt.* ii. 490. Syme, E. B. ii. 230. 320.

Alien ; hedges and woods. Common throughout the county. T. April-May.

Springing up spontaneously in many of the hedges and woods.

First record, Purton, Midland Flora, 1817, Arrow.

**A. campestre, Linn.**

*Maple.*

Top. Bot. 93. *Purt.* ii. 492. Syme, E. B. 232. 321.

Native ; hedges and woods. Frequent. T. May-June.

First record, Ray, *Historia Plantarum*, 1688.

1. TAME. Middleton ! *Ray, Hist. Plant.* ii., 1700, Sutton.
2. BLYTHE. Marston Green ; Packington ; Hampton-in-Arden ; Earlswood, &c.
3. ANKER. Bramcote ; Shuttington ; Newton Regis ; Seckington, &c.
4. AVON. Lighthorne, *Miss Palmer.* Oakley ; Chesterton ; Warwick.
5. LEAM. Ufton ; Radford Semele ; Birdingbury.
6. SOW. Combe Pastures ; Allesley.
7. STOUR. Wolford Heath ; Brailes ; Lower Eatington.
8. ALNE. Preston Bagot ; Drayton Rough Moors ; Henley-in-Arden ; High Cross ; Lapworth Street.
9. ARROW. Morton Bagot ; Ipsley ; Wire Hill ; Oversley.
10. CHERWELL. Farnborough ; Avon Dassett.

## ORD. XXIII. LEGUMINOSÆ.

GENISTA. *Linn.***G. anglica**, *Linn.*      *Needle Furze. Petty Whin.*

Top. Bot. 105. *Purt.* i. 333. *Syme*, E. B. iii. 8. 326.  
Native; sandy heaths and heathy waysides. Rare. Shrub. June to September.  
First record, Bree, Midland Flora, 1817.

1. TAME. Old Chester Road, near Westwood Coppice, *Caswell*. Sutton Park, very sparingly; Arley Wood.
2. BLYTHE. Coleshill Heath! *Bree in Purt.* i. 333. "Brought me from Bradnock's Marsh," *W. G. P.* On the left hand side of the road from Stonebridge to Elmdon, *Sm. Perry Fl.* 61. Little Hell Common, *Perry, MS.*, 1827. Heathy roadsides between Packington and Stonebridge.
4. AVON. On the Barby Road, near Mr. Rogers's farm, near Rugby, *Baxter in Purt.* iii. 372.
5. LEAM. Bascote Heath, *Baynes, MS.*, 1832.
6. SOW. Stivichall Common, *Cox.*

It not unfrequently blooms twice a year, in the spring and again in autumn, when the fruit is formed.

**G. tinctoria**, *Linn.*      *Dyer's Green Weed.*

Top. Bot. 104. *Purt.* i. 332. *Syme*, E. B. iii. 9. 328.  
Native; marly banks and fields. Local. Small shrub. July-August.  
First record, Perry List, 1817.

2. BLYTHE. Packington Park, *Grove*. A lane at Elmdon, near the Hall! *Ich, Anal.*, 1837. Wroxall, *Brom*. Lane from Netherwood Heath to Bedlam's End; field path from Sheldon to Olton; Packwood, lane near the Hall; Rotheram Oak, Waring's Green; field by Clowes' Wood, near Earlswood; Shelly Lane, near Shelly Coppice.
3. ANKER. Ansley Heath; near Alvecote; near Bramcote.
4. AVON. Green's Grove, Hatton; between Leamington and Emscote, *Perry List*, 1817. On the road side from Warwick to Norton Lindsay, beyond the cross at Hampton-on-the-Hill, 1824, *Perry, MS.* Whitnash, Chesterton! *Y. and B.* Salford Lodge Wood, *Caswell*. Lighthorne, *Bolton Kings*. Marly bank, Ashorne; near Oakley Wood; Moreton Morrell.
5. LEAM. Corner of Whitnash Field, at the crossing of the Fosse Road, *Perry, MS.* Between Offchurch and Cubbington, 1831, Doble Wood, 1831, *Baynes, MS.*
6. SOW. Kenilworth, *Brom*.
7. STOUR. Fields near Blackwell, *F. Townsend*.
8. ALNE. Bridle road, Billesley to Wilmcote; Yarningale Common; lane from Wawen's Moor to Wootton Wawen; lane from Great Fonthall to Tanworth; near Aston Cantlow; near Bearley Cross; High Cross.
9. ARROW. Coughton Fields, near Beauchamp Court, *Purt.* i. 333. Middle-town; Spennall Ash; fields near Oversley Wood; near Rose Hall.

ULEX. *Linn.***U. europæus**, *Linn.*      *Furze. Gorse.*

Top. Bot. 103. *Purt.* i. 330. *Syme*, E. B. iii. 4. 323.  
Native; heaths, banks, and dry pastures. Common, and distributed throughout the county. Shrub. March to September.  
Although this shrub occurs in every district, it is often absent over wide areas.  
First record, Rugby School Report, 1868, near Rugby.

**U. Galli, Planch.**

*Planchon's Furne.*

Top. Bot. 104. Purt. iii. 59. Syme, E. B. iii. 6. 324.  
Native; heaths and heathy roadsides. Local and rare. Shrub. July to  
December.

First record, Purton, Midland Flora, 1821, *U. nanus*, L.

1. TAME. Sutton Coldfield; Middleton Heath; Arley Wood.
2. BLYTHE. Coleshill Heath; Solihull; Bentley Heath; Windmill Lane,  
Little Ladbroke; Earlswood; Forshaw.
3. ANKER. Polesworth; Grendon; Wolvey Heath.
4. AVON. Heathcote, near Tachbrook, *Brom.* Beausale, *Y. and B.* Edge  
Hill Wood.
5. LEAM. Offchurch Heath.
6. SOW. Between Wroxall and Honiley! *Kirk.* Corley Moor! *Bree, N. B.*  
*G. S.* Kenilworth! *Brom.* Corley Rock.
7. STOUR. Wolford Heath, Lower Tysoe; Whitehouse.
8. ALNE. Shrewley Common, *Bree, N. B. G. S.* Near Kemp's Green;  
Wawen's Moor; Yarningale Common.
9. ARROW. Coughton Park! abundantly, September, 1820; also on Dunning-  
ton Heath; Studley! and Astwood Commons! *Purt.* iii. 59. Alcester  
Heath; Ipsley; Morton Bagot; Exhall.
10. CHERWELL. Near Upton House, Edge Hill.

**CYTISUS. Link.**

**C. scoparius, Link.**

*Common Broom.*

*Spartium scoparium*, L. Top. Bot. 103. Purt. i. 328. *Sarothamnus*, Koch.  
Syme, E. B. iii. 11. 329.

Native; fields, banks, and waysides. Common, and generally distributed  
throughout the county. Shrub. May to July.

First record, Ick, Analyst, 1837, Saltley.

Though widely distributed in the county, often absent over wide areas.

**ONONIS. Linn.**

**O. repens, Linn.**

*Rest Harrow.*

*Ononis arvensis*, L. Top. Bot. 105. Purt. i. 330. Syme, E. B. iii. 16. 331.  
Native; sandy banks and roadsides. Local. P. June to August.

First record, Ick, Analyst, 1837.

1. TAME. Saltley, corner of Coleshill Road, *Ick, Anal.*, 1837. Powell's  
Pool, Sutton Park; Wyde Green; Langley; abundant on heathy pas-  
tures, near Hurley.
2. BLYTHE. Elmdon.
3. ANKER. Lane to Newton Regis; near Burton Hastings, road to Wolvey;  
Nuneaton.
4. AVON. With white flowers, on Rectory Farm, Harborough Magna, *Blax.*  
Lighthorne, *Miss Palmer.* Tachbrook, *Y. and B.* Fullbrook, Norton  
Lindsay, *Brom.* Edge Hill; Salford Priors; Alveston Heath; Bidford.
5. LEAM. Roadsides, near Princethorpe, *Rugby Sch. Rep.*, 1874. Ufton;  
Southam.
6. SOW. Brinklow Lane, *Adams.*
7. STOUR. Halford; Lambcote, *Newb.* Near Tysoe; Easington; Atherstone-  
on-Stour.

8. ALNE. Canal bank, Bearley, *Grove*. Between Billesley and Wilmcote; lanes about Wootton Wawen; Alne Hills; Preston Bagot.
9. ARROW. Hilly pastures, by Banum's Wood, Morton Bagot; Exhall; Oversley; Dunnington.
10. CHERWELL. Waysides, near Farnborough; Avon Dassett.

**O. spinosa, Linn.***Field Rest Harrow.*

Top. Bot. 105. Purt. i. 331. Syme, E. B. iii. 15. 330.

Native; sandy and marly banks and roadsides. Locally common. P. May to July.

First record, Baxter, MS., 1837.

1. TAME. Abundant, heathy pasture, near Hurley.
2. BLYTHE. Elmdon, near Bickenhill.
3. ANKER. Near Coventry Wood, Arbury Hall, *Kirk, Phyt.* ii. 970. Newton Regis; Bramcote; Ryton; Grendon; Anker Bridge.
4. AVON. Moreton Morrell, *Y. and B.* About Rugby, *Baxter*. Footroad from Kineton to Edge Hill; Marl Cliff; between Stratford-on-Avon and Binton; footroad, Itchington Holt to Lighthorne; Stratford Heath; Alveston Heath; Cathiron Lane, near Rugby.
5. LEAM. Between Dunchurch and Southam, with white flowers, *Baxter, MS.* Ufton! *Brom.* Southam, *Y. and B.*
6. SOW. Shilton, *Adams*.
7. STOUR. Honington! Shipston! Whatcote; Brailes! Halford! *Newb.* Near Pillerton Priors; Atherstone-on-Stour.
8. ALNE. Near Bearley, *Grove*. Bridle road from Billesley to Wilmcote; Henley-in-Arden.
9. ARROW. Near Rose Hall, Oversley; Exhall.
10. CHERWELL. Near Farnborough; Avon Dassett.

**MEDICAGO. Linn.***\*M. sativa, Linn.**Common Lucerne.*

Purt. i. 347. Syme, E. B. iii. 21. 334.

Alien; cultivated fields and banks. Rare. P. May to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Railway bank, Sutton Park; Erdington; Plant's Brook Reservoir.
3. ANKER. Railway bank, Weddington; railway bank, Bulkington.
4. AVON. Rugby, *Rugby Sch. Rep.*, 1871. Myton, *Y. and B.* On railway banks between Budbrook and Emscote, *Brom.* Steeple Hill, Bidford, in fields.
5. LEAM. Railway cutting, near Marton; Ufton.
7. STOUR. Cornfield, near Tysoe.
8. ALNE. Grafton, *Purt. i.* 347. Railway bank, near Pinley Green.
10. CHERWELL. Cornfield, near Farnborough; Ratley, Edge Hill; Compton Wharf.

In many of these stations this plant appears to be more a casual weed than a denizen, but in others it is well established.

**M. lupulina, Linn.***Black Medick. Non-such.*

Top. Bot. 107. Purt. i. 348. Syme, E. B. iii. 25. 337.

Native; banks, roadsides, and fields. Common and generally distributed.

A. or B. May to August.

First record, Kirk, Herb. Perry, 1854, Warwick.

**M. denticulata, Willd.** *Reticulated Medick.*

(Top. Bot. 107.) Syme, E. B. iii. 26. 338.

Denizen; cultivated fields and waste places. Rare. A. July-August.  
First record, Bromwich, 1866.

3. ANKER. Bridle road from Weddington to Watling Street, abundant.

6. SOW. Established in lanes about Kenilworth, *Brom.*, probably brought with foreign skins; rick yard at Kenilworth.

Var. *b. apiculata* (Willd.) Casual in rick yards, near Kenilworth.

Var. *c. lappacea* (Lam.) Casual in skin yards, Kenilworth, *Brom.*

These forms are brought with foreign skins.

**M. maculata, Sibth.** *M. arabica, All.* *Spotted Medick.*

Top. Bot. 107. Syme, E. B. iii. 27. 339.

Alien? roadsides and waste places. Rare. A. July-August.  
First record, Perry List, 1817.

3. ANKER. Bridle road from Weddington to Watling Street.

4. AVON. Lammas Field, Warwick; Pigwell Field, *Perry Fl.* By the canal, behind St. Mary's Workhouse Garden, *Perry, List*, 1817. Warwick; Sherborne, *Y. and B.* Emscote, *Brom.* Roadsides, Myton; roadsides from Stratford-on-Avon to Easington and Shipston-on-Stour, 1875.

5. LEAM. Near Offchurch, 1874.

6. SOW. Rickyard at Kenilworth! *Brom.*

**MELILOTUS. Tournef.**

**M. officinalis, Lam.** *M. altissima, Thuill.* *Common Melilot.*

Top. Bot. 108. Syme, E. B. iii. 29. 341. *Trifolium Melilotus officinalis, L.*,  
*Purt. i.* 346.

Denizen; woods, banks, railway sidings. Local. A. June.

First record, Purton, Midland Flora, 1817.

1. TAME. Bordesley Green, *ICK, Anal.*, 1837; railway bank, Stechford; railway sidings, line from Castle Bromwich to Sutton Park, 1878 to 1880, abundant.

2. BLYTHE. Canal bank, near Solihull.

4. AVON. On the roadside, between Warwick and Tachbrook; near Stratford! *Per. Fl. 62.* Whitnash, *Y. and B.* Rugby district, *Rugby Sch. Rep.*, 1869. Lighthorne, *Miss Palmer.* Canal bank, Newbold-on-Avon; Chesterton Wood; Bidford; Kineton Railway Station.

5. LEAM. Open field, Harbury and Tachbrook, *Per. Fl. 62.* Ufton Wood, 1832, *Perry, MS.* Cublington; Southam Road, Harbury; canal side, Long Itchington; Birdingbury Station, and canal wharf.

6. SOW. Ansty, near Coventry.

7. STOUR. Tysoe! Honington; Shipston-on-Stour; Whatcote, *Newb.* Upper Easington; Oxhill.

8. ALNE. Kinwarton, Grafton, *Purt. i.* 346. Shrewley, canal bank; lane from Bearley Cross to Little Alne; Bearley, canal bank; Drayton Bushes.

9. ARROW. Spennall, *Purt. i.* 346.

10. CHERWELL. Wormleighton Reservoir, 1886; Ratley, Edge Hill.

**\*M. alba, Desr.***White Melilot.*

Syme, E. B. iii. 31. 342.

Alien; railway banks and waste places. Rare. B. July-August.

First record, Bree, Mag. Nat. Hist., 1829.

1. TAME. Stechford, railway banks; on the sidings of new line from Castle Bromwich to Sutton Park; Water Orton, abundant; Four Oaks, near Sutton, 1874.
2. BLYTHE. With white flowers, Coleshill, *Bree, Mag. Nat. Hist.* i. 393.
4. AVON. Near Emscote Mill, *Brom.*

**\*M. arvensis, Wallr.***Field Melilot.*

Syme, E. B. iii. 32. 343.

Casual; waste places and waysides. Rare. A. June to August.

First record, the Author, 1872.

1. TAME. Waste stony places, in a lane, near Boldmere, Sutton, 1875; in cornfields, near Oscott; Sutton Park, in waste spots, near railway.
3. ANKER. Roadside and cutting, near Bulkington Railway Station, 1885.
4. AVON. Warwick Stone Quarry and Castle walls, *Brom.* Near Kineton.
5. LEAM. Fenny Compton, railway siding.
7. STOUR. A few plants by the side of a field, near the allotments, Honington, *Newb.* Lower Tysoe; Oxhill.
8. ALNE. Lowson Ford.
9. ARROW. A few plants on the wayside, near Wixford, 1872.
10. CHERWELL. By Roman Encampment, Edge Hill.

[\*\**M. parviflora*, Lam. Syme, E. B. iii. 33. 344.

A casual in cultivated ground. This occurred on the canal bank, near Olton Pool; and in potato fields, Kenilworth.]

**TRIFOLIUM. Linn.****T. subterraneum, Linn.***Subterranean Trefoil.*

Top. Bot. 109. Syme, E. B. iii. 36. 346.

Native; in old pastures. Very rare. A. May-June.

First record, Perry, MS., 1843.

4. AVON. Rough pastures, between Emscote and Milverton, *Perry, MS.* 1843. Milverton Old Green; old pastures, Sherborne, *Brom. Herb. Brit. Mus.*, 1866. Abbot's Salford, *Caswell.*

**T. pratense, Linn.***Red Clover.*

Top. Bot. 110. Part. i. 343. Syme, E. B. iii. 37. 347.

Native; pastures, roadsides, and waste places. Common, and generally distributed. A. or P. May to October.

First record, Dr. Lloyd, Herb. Perry, 1835.

Var. *a. sylvestre*, Syme. Frequent in all the districts I have visited. The *Rev. W. W. Newbould* states that it is rare in the Stour basin.

Var. *b. parvifolium*, Bab. Whitnash, *Brom.*

Var. *c. sativum*, Syme. Occasionally, in a semi-wild state.

Var. *album*. Between Rugby and Brownsover.

A prolific form, in some abundance, was pointed out by the Rev. W. W. Newbould, at Halford, near Shipston-on-Stour.

**T. medium**, Linn. *Zigzag Clover.*

Top. Bot. 110. Purt. i. 343. Syme. E. B. iii. 40. 348.  
Native; fields, banks, roadsides. Local. P. July to October.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Wishaw; Tyburn.
2. BLYTHE. Canal bank, near Solihull.
3. ANKER. Shuttington.
4. AVON. Primrose Lane, near the Woodloes, 1835, *Perry, MS.* Sherborne; Whitnash, *Y. and B.*. Near the Lime Works, Little Lawford, *Rugby Sch. Rep.*, 1872. Lighthorne, *Miss Palmer.*
5. LEAM. Leamington, *Per. Fl.* On the Fosseway, near Harbury, *Perry, MS.* Bascote and Radbourne, *Bolton King.* Near Birdingbury; Ufton Wood.
7. STOUR. Honington, *Newb.* Brailes; Halford.
8. ALNE. Little Alne; Lapworth Street; near Bearley Cross; Pinley Green.
9. ARROW. Oversley, *Purt. i.* 343. Studley; Spennall; Sambourn; Ragley; Wixford.
10. CHERWELL. Near Farnborough.

[\*\**T. incarnatum*, Linn. Syme, E. B. iii. 44. 352.

Casual, or remains in fields, at Castle Bromwich and Knowle; also recorded from Emscote, and near Rugby; near Birdingbury, with white flowers.]

**T. arvense**, Linn. *Hare's-foot Trefoil.*

Top. Bot. 111. Purt. i. 345. Syme, E. B. iii. 46. 354.  
Native; sandy fields and roadsides. Local and rare. A. July.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sandy spots, Old Chester Road, near Erdington; Witton; on the new dam, Bracebridge Pool, Sutton Park, 1880; near Royal Hotel, Sutton; Wishaw.  
Rare or absent in Blythe and Anker districts.
4. AVON. Salford, *Purt. i.* 345. Leek Wootton Fields; Stone Quarry, Woodloes, *Per. Fl.* 63. Near Hatton; Blacklow Hill, *Perry, MS.* Guy's Cliff; Stoneleigh; Ashow, *Baynes, MS.*, 1835. Rugby district, *Rugby Sch. Rep.*, 1871.
5. LEAM. Cubbington, *Baynes, MS.*
6. SOW. Kenilworth, *Perry, MS.* Kenilworth Castle, *Y. and B.*
9. ARROW. Dunnington, *Purt. i.* 345.

**T. striatum**, Linn. *Soft Knotted Trefoil.*

Top. Bot. 112. Syme, E. B. iii. 48. 356.  
Native; sandy and gravelly places. Rare. A. June to August.  
First record, Ray, *Trifolium nodiflorum glomerulis mollioribus*, Catalogus, 1670.

1. TAME. On Dorsthill, near Middleton, Warwickshire, *Ray, Cat.* Ed. i. 1670. 305. Abundant on the new dam, at Bracebridge Pool, Sutton Park, 1880. A casual for two or three seasons.
4. AVON. Sherborne; Hampton-on-the-Hill; Heathcote; Warwick, *Brom.* Burton Hill, *Bolton King.* Salford Priors, on old walls; Hatton Rock, near Hampton Lucy.
5. LEAM. Southam.
6. SOW. Kenilworth ruins, *Brom.*
7. STOUR. Honington, near the gravel pits, *Newb.*
9. ARROW. Coughton Court, near Alcester, on old walls, 1874-1886.

Var. *b. erectum*, Leight. Sand rock, Woodloes, near Warwick, *H. Bromwich, Herb. Brit. Mus.* Milverton, in a rough pasture; on the new road from Leamington to Kenilworth, *Brom.*

A mere form of the type, somewhat stunted, and not var. *erectum*.

**T. seabrum, Linn.**

*Rough Rigid Trefoil.*

Top. Bot. 112. Syme, E. B. iii. 49. 357.  
Ambiguity; waste places. Rare. A. June-July.  
First record, Kirk, Top. Bot. Ed. i., 1858.

4. AVON. Sherborne, *Y. and B.*

I have never seen specimens from this locality, nor seen it growing in Warwickshire; probably the plant recorded is merely the var. *erectum* of *T. striatum*.

[\**T. hybridum*, Linn.

*Alsike Clover.*

Syme, E. B. iii. 53. 361.  
Denizen or casual; fields, roadsides, railway sidings, and waste places. Rather local; fully established in many of the districts. P. July-August.  
First record, Rugby School Report, 1870.

1. TAME. Sutton Park, on waste places.
2. BLYTHE. Marston Green; Knowle; Temple Balsall.
3. ANKER. Waysides, near Oldbury Hall; Austrey; Bramcote.
4. AVON. Near Rugby, *Rugby Sch. Rep.*, 1870. Milverton, *Y. and B.* Binton; Bardon Hill, near Stratford-on-Avon.
5. LEAM. Birdingbury.
6. SOW. Kenilworth, *Y. and B.* Canal banks, Sow Common; fields, Baginton.
7. STOUR. Honington, *Newb.* Brailes.
8. ALNE. Great Alne, waysides; Lapworth Street.
9. ARROW. Studley, railway bank; Exhall; Rough Hill, Sambourn.
10. CHERWELL. Footways, near Avon Dassett.

Var. *elegans* (Savi.) Near Harborough Magna, *Blox., MS.*]

**T. repens, Linn.**

*Dutch Clover. White Clover.*

Top. Bot. 109. Purt. i. 344. Syme, E. B. iii. 54. 362.  
Native; meadows, pastures, waysides. Common, and generally distributed.  
P. May to November.  
First record, Perry, Mag. Nat. Hist. ii., 1829, form with foliaceous heads.  
Occasionally found with foliaceous flowers in stony waste places.

**T. fragiferum, Linn.***Strawberry-headed Clover.*

Top. Bot. 113. Purt. i. 346. Syme, E. B. iii. 58. 363.

Native; roadsides and borders of pastures, in marly and calcareous soils.

Local and rare. P. June to September.

First record, Purton, Midland Flora, 1817.

4. AVON. Myton, roadsides, between Stank Hill and Hatton, *Perry, MS.* Whitnash, *Y. and B.* Tachbrook, *Brom.* Lawford and Dunchurch Roads, *Rugby Sch. Rep.*, 1867. Gaydon, *Bolton King.* Roadsides, near Stratford-on-Avon; Chadshunt; Harborough Magna.
5. LEAM. Corner of Whitnash Fields, near the Fosse Road, *Perry, MS.* Southam, *Y. and B.* Bishop's Itchington, *Brom.* Bascote Wharf, *Bolton King.* Lane, above Dayman's Pool, Offchurch; Ufton; Stockton.
7. STOUR. Honington?; Shipston-on-Stour, *Newb.* Upper Eatington; Oxhill.
8. ALNE. Kinwarton, *Purt. i.* 346. Canal bank, Bearley, *Grove.*
9. ARROW. Oversley, *Purt. i.* 346. Exhall, near Alcester.
10. CHERWELL. Waysides, Avon Dassett.

[\*\**T. resupinatum*, Linn. Occurs as a casual weed in Oscott College Grounds, Caswell.]

[\*\**T. agrarium*, Linn. Is a casual on waste places, Sutton Park and Bevington Waste, near Salford Priors.]

**T. procumbens, Linn.***Hop Trefoil.*

Top. Bot. 114. Purt. i. 344. Syme, E. B. iii. 60. 365.

Native; banks, waysides, and pastures. Frequent, occurring more or less abundantly throughout the county. A. May to September.

First record, Rugby School Report, 1868, near Rugby.

**T. dubium, Sibth.***Lesser Yellow Trefoil.*

*T. minus*, Relhan. Top. Bot. 114. Syme, E. B. iii. 62. 366.

Native; banks, roadsides, and pastures. Common, and generally distributed.

A. May to August.

First known record, the Author, Flora of Sutton Park, 1876.

**T. filiforme, Linn.***Least Yellow Trefoil.*

Top. Bot. 114. Syme, E. B. iii. 63. 367.

Native; old pastures and grassy roadsides. Rare. A. June to August.

First record, Perry, MS., 1820.

1. TAME. Turfy waysides, near Castle Bromwich; railway banks, Sutton Park.
2. BLYTHE. Coleshill Heath; turf waysides, between Barston and Temple Balsall; Barston Marsh; Catherine-de-Barnes Heath, near Solihull; canal siding, near Solihull.
3. ANKER. Damp heath land, near Shuttington Bridge, Tamworth.
4. AVON. Near Harborough Magna, *Blox.*, *Rugby Sch. Rep.*, 1871. Saltisford Common, *Perry, MS.*, 1820. Near Leek Wootton, *Baynes, MS.* Myton; Sherborne; Milverton; Hampton-on-the-Hill, *Brom.* Between Kineton and Edge Hill, 1867.

7. STOUR. Honington, *Newb.*
8. ALNE. Yarningale Common; old pastures, on the Mobs, Henley-in-Arden; Lye Green.
9. ARROW. Lane from Spennall Ash to Sambourn.

### ANTHYLLIS. *Linn.*

#### A. *Vulneraria*, *Linn.* *Kidney Vetch. Lady's Fingers.*

- Top. Bot. 106. *Purt.* i. 331. Syme, E. B. iii. 19. 333.  
 Native; dry, marly, and calcareous banks. Rather rare. P. June to August.  
 First record, Purton, Midland Flora, 1817.
2. BLYTHE. Canal bank, near Knowle.
  4. AVON. Shottery, *Purt.* i. 332. Blacklow Hill, *Perry, MS.* Harborough Magna, *Blox.* Lighthorne; Gaydon; Burton Dassett, *Bolton King.* Marl Cliff, near Bidford.
  5. LEAM. Radford; Tachbrook; Bascote Heath, *Baynes, MS.* Harbury! *Y. and B.* Canal siding, near Long Itchington.
  7. STOUR. Whatcote, *Gorle.* Honington, *Newb.* Upper Eatington.
  8. ALNE. Kinwarton, *Purt.* i. 332. Bearley, canal bank; fields, near Wilmcote; Rowington, canal bank.
  9. ARROW. Coughton Fields, *Purt.* i. 332.
  10. CHERWELL. Avon Dassett.

### LOTUS. *Linn.*

#### L. *corniculatus*, *Linn.* *Bird's-foot Trefoil.*

- Top. Bot. 115. *Purt.* i. 342. Syme, E. B. iii. 65. 368.  
 Native; pastures, heaths, and roadsides. Common, and generally distributed.  
 P. May to August.  
 First record, Rugby School Report, 1868, near Rugby.

*b. crassifolius*, Pers. Near Tachbrook; on the Banbury Road; lane above Bearley Cross; Wootton Wawen; Sambourn.

*c. villosus*, Coss. and Germ. In calcareous soils, Oakley; Milverton; Farnborough; Ratley, Edge Hill.

#### L. *tenuis*, *Waldst. and Kit.* *Bird's-foot Trefoil.*

- Top. Bot. 115. Syme, E. B. iii. 67. 369.  
 Native; fields, banks, and waysides, in marly and calcareous soils. Rare. P. June to September.  
 First record, Rev. A. Bloxam, New Botanist's Guide, 1837.

2. BLYTHE. Footways near Berkswell.
4. AVON. Dunchurch Road, near Rugby, *Blox. N. B. G. S., 1837.* Whitnash, Chesterton, *Y. and B.* Hampton-on-the-Hill! Moreton Morrell, *Brom.* Binton; Bidford; between Kineton and Edge Hill; Loxley; Drayton, near Stratford-on-Avon; Newbold-on-Avon, canal bank; Norton Lindsay; Walton Village.
5. LEAM. Harbury, *Grove.* Near Birdingbury Station! *Trott.* Ufton, *Bolton King.* Bascote Heath; Draycote, near Birdingbury.
7. STOUR. Abundant on the Fosseway, near Darlingcote; Honington; Barcheston, *Newb.* Near Pillerton; Brailes.

8. ALNE Temple Grafton; Wilmcote; Bearley; Little Alne; Billesley; near Aston Cantlow.
9. ARROW. Studley; Exhall.

**L. pilosus, Beske.** *Marsh Bird's-foot Trefoil.*

*L. major*, Scop. Top. Bot. 116. *Purt.* i. 342. Syme, E. B. iii. 67. 370. Native; damp woods, moist heaths, and ditch sides. Local, but widely distributed. P. June to September.  
First record, Rugby School Report, 1868, *L. major*, Scop.

1. TAME. Sutton Park; Middleton; Whitacre.
2. BLYTHE. Olton; Earlswood, &c.
3. ANKER. Baddesley Ensor; Shuttington.
4. AVON. Bidford; Newbold-on-Avon.
5. LEAM. Birdingbury; Ufton.
6. SOW. Combe Fields; Sow Waste.
7. STOUR. Near Brailles Hill; Barton-on-the-Heath.
8. ALNE. Umberslade, *Grove*. Drayton Rough Moors; Henley-in-Arden.
9. ARROW. Rough Hill, Sambourn; Spennall.
10. CHERWELL. Avon Dassett.

**ASTRAGALUS. Linn.**

**A. glycyphyllos, Linn.** *Wild Liquorice.*

Top. Bot. 116. *Purt.* i. 348. Syme, E. B. iii. 75. 377. Native; roadsides and pastures in calcareous soils. Rare. P. June to August. First record, Purton, Midland Flora, 1817.

4. AVON. Ashorne! 1842, *Perry, MS.* Scar at Hampton Lucy, *Dr. Lloyd*. Lighthorne; Binton; roadside, near Stratford-on-Avon.
8. LEAM. Tachbrook, near the Fosseyway, *Y. and B.* Ladbrook, *Bolton King*.
8. ALNE. Grafton! *Purt.* i. 349.
9. ARROW. Oversley! *Purt.* i. 349. Billborough Hill, near Alcester, *Blox., N. B. G. S.*, 1837. Morton Bagot.

**ORNITHOPUS. Linn.**

**O. perpusillus, Linn.** *Common Bird's-foot.*

Top. Bot. 118. *Purt.* i. 349. Syme, E. B. iii. 77. 378. Native; heathy footways and sandy fields. Local and rare. A. June to September.  
First record, Withering's Arrangement, 1787.

1. TAME. Winson Green and Washwood Heath, near Birmingham, *With.*, Ed. 2. ii. 783. Old Chester Road; near Erdington; Sutton Park.
2. BLYTHE. Packington, *Sm., Per. Fl.* Coleshill Heath! *Purt.* i. 350. Bannersley Rough, near Coleshill; Hampton-in-Arden; Cornets End; Berkswell.
3. ANKER. Baddesley Common; Ironstone Wood, Oldbury; Polesworth; Hartshill Quarries.
4. AVON. Stoneleigh New Road, *Perry List*, 1817. Sandstone rock, Milverton.
5. LEAM. Leamington, *Y. and B.*
6. SOW. Kenilworth Heath, 1827. *Perry, MS.*
8. ALNE. Lye Green; near Aston Cantlow.

[\*\**Coronilla varia*, Linn., was established for many years as a casual in a hedge at Wyld Green. This has since been destroyed through building operations.]

[\**Hippocrepis comosa*, Linn. *Horse-shoe Vetch*.

Syme, E. B., iii. 79. 380.

Denizen or casual; on marly banks. Rare. Moreton Morrell, *Brom.*, *Herb. Brit. Mus.*, June, 1864.]

### ONOBRYCHIS. Lam.

**O. sativa**, Lam. *Sainfoin. Cockshead*.

Top. Bot., 119. *Purt.* i. 341. Syme, E. B. iii. 81. 381.

Native or denizen; cultivated fields and waysides. Local and rare. P. June to August.

First record, Purton, Midland Flora, 1817. *Hedysarum Onobrychis*, L.

4. AVON. Lighthorne, *Miss Palmer*. Binton; road from Stratford-on-Avon to Bidford; Red Hill.

5. LEAM. On a hill, between Bascote and Radford, *Baynes*, MS. Harbury! *Y. and B.*

8. ALNE. Grafton; Billesley, *Purt.* i. 341. In a field in the lane from Bearley Cross to Little Alne.

9. ARROW. Banks, near Rose Hall, Oversley; railway banks, Studley.

10. CHERWELL. Banks of field, below Compton Quarry, Avon Dassett.

In all these localities this is probably a remains from former cultivation; a plant cultivated for more than 200 years is sure to leave some descendants in our fields.

### VICIA. Linn.

**V. hirsuta**, Koch. *Ervum hirsutum*, L. *Hairy Tare*.

Top. Bot. 123. *Purt.* i. 334. Syme, E. B. iii. 84. 382.

Native; banks, roadsides, and fields. Common and generally distributed. A. May to August.

First record, Rugby School Report, 1868.

**V. tetrasperma**, Moench. *Ervum tetraspermum*, L. *Smooth Tare*.

Top. Bot. 123. *Purt.* i. 334. Syme, E. B. iii. 85. 383.

Native; cultivated fields, banks, and waysides. Local and rare. A. May to August.

First record, Kirk, Top. Bot., 1858.

1. TAME. Abundant on the new dam, Bracebridge Pool, and on the railway banks in Sutton Park.

2. BLYTHE. Railway banks near Knowle Station; in fields about Elmdon and Coleshill Heath; roadside, Bradnock's Marsh; abundant in the Green Lanes, Coleshill Park, 1883.

3. ANKER. Apparently rare; not observed as yet.

4. AVON. Whitnash, *Y. and B.* Near Bilton, Rugby, *Rugby Sch. Rep.*, 1877. Warwick Old Park, *Brom.* Fields near Bidford.

5. LEAM. Ufton, *Bolton King*. Fields, Cubbington.
6. SOW. Lane from Willenhall to Baginton.
8. ALNE. Peafield near Wilmcote; canal bank, Bearley; Stoooper's Wood and Wawen's Moor, near Henley-in-Arden; Great Alne; Henley-in-Arden; Lapworth Street; Pinley Green.
9. ARROW. Sperrall Ash, *Grove*. Oversley Wood; Cold Comfort, near Alcester; field at Dunnington; near Sambourn.

**V. gracilis, Lois.***Slender Tare.*

Top. Bot. 124. Syme, E. B. iii. 86. 384.

Native or colonist; cultivated soils and waste places in calcareous soils. Rare. A. June to August.

First record, Bromwich, Herb. British Museum, 1867.

4. AVON. Moreton Morrell! *Brom.*, *Herb. Brit. Mus.*, 1867. Whitnash, *Y. and B.*
5. LEAM. Fields near Wappenbury.
7. STOUR. Tredington, in a few places! *Newb.*; this is just out of the county. Grass fields between Honington and Granby Farm House, *F. Townsend.*
8. ALNE. Peafield near Wilmcote.

**V. Cracca, Linn.***Tufted Vetch.*

Top. Bot. 121. Purt. i. 335. Syme, E. B. iii. 87. 385.

Native; hedges and woods. Common, and generally distributed. P. June to September.

First record, Perry List, 1817. Unlocalised.

**V. sylvatica, Linn.***Wood Vetch.*

Top. Bot. 120. Syme, E. B. iii. 90. 387.

Native; woods. Very rare. P. July-August.

First record, "Aliquis," *Mag. Nat. Hist.*, 1832.

3. ANKER. Hartshill Hayes, *Blox. Phyt.* iii. 324. "It grows in thousands, perhaps tens of thousands, on Hartshill Hey's Wood (Hartshill Hayes), just ten miles from Coventry, festooning the underwood with its beautiful chocolate-striped petals most delightfully. It is a sight well worth walking miles to see."—*Aliquis, Manchester*, March 21, 1832, *Mag. Nat. Hist.* v. 768. Bentley Park, *W. T. Bree*, 1836. Merevale Park, *Power, MS.*

A specimen from Hartshill Hayes, collected by F. Townsend, Esq., is in Perry's Herbarium.

I have visited all these localities several times, but have not been able to see a trace of this plant.

**V. sepium, Linn.***Bush Vetch.*

Top. Bot. 123. Purt. i. 336. Syme, E. B. iii. 91. 388.

Native; woods, banks, &amp;c. Common, and generally distributed. P. May to July.

First record, Rugby School Report, 1868, near Rugby.

With white flowers, in Whichford Wood.

F

*\*V. sativa, Linn.**Cultivated Vetch.*

Purt. i. 335. Syme, E. B. iii. 96. 392.

Casual; railway banks and waysides. Casually throughout the county. A. May to July.

First known record, the Author, Midland Naturalist, 1882. Unlocalised.

*V. angustifolia, Roth.**Common Wild Vetch.*

Top. Bot. 120. Purt. i. 337. Syme, E. B. iii. 97. 393, 394.

Native; woods, heaths, hedge banks. Rather frequent. A. May to August. First known record, the Author, Proceedings Birm. Nat. History Society, 1869.

Var. *a. segetalis* (Thuill).

Syme, E. B. iii. 97. 393.

1. TAME. Sutton Park; Kingsbury; Plant's Brook.
2. BLYTHE. Coleshill Heath; Knowle, railway bank; Meriden.
3. ANKER. Hartshill; Parley Park; Shuttington.
4. AVON. Salford Priors; Bidford.
5. LEAM. Near Napton-on-the-Hill; Marton; Stockton.
6. SOW. Kenilworth! *Y. and B.* Combe Fields.
7. STOUR. Honington, *Newb.* Wimpstone Fields.
8. ALNE. Fields, Great Alne; Pinley; Billesley.
9. ARROW. Waysides, Iron Cross; Spennall.
10. CHERWELL. Fields, Avon Dassett.

Var. *b. Bobartii* (Forster). Banks, heathy waysides. Local.

First record, Bree, Cat. New Botanist's Guide, 1835. Unlocalised.

1. TAME. Kingsbury; Whitacre Heath; Sutton Park, railway banks; New Park, Middleton.
2. BLYTHE. Coleshill Heath; Cornets End; Bradnock's Marsh.
3. ANKER. Watling Street, on waysides; Parley Park; Hartshill.
4. AVON. Milverton, *Y. and B.*
5. LEAM. Canal bank, near Long Itchington.
6. SOW. Near Willenhall.
7. STOUR. Banks, about Whichford.
8. ALNE. Railway banks, Shrewley Common; Wawen's Moor, near Henley-in-Arden; Lapworth Street.
9. ARROW. Sambourn.
10. CHERWELL. Canal siding, near Wormleighton Reservoir.

*V. lathyroides, Linn.**Spring Vetch.*

Top. Bot. 122. Purt. i. 337. Syme, E. B. iii. 98. 395.

Native; sandy and gravelly soils and quarries. Very rare. A. May-June.

First record, Purton, Midland Flora, 1817.

3. ANKER. Quarries, near Hartshill, May, 1883.
4. AVON. A casual, near Milverton, *Brom.*
9. ARROW. On the side of the Bridle Road from Spennall Ash to Studley, Purt. i. 337.

LATHYRUS. *Linn.***L. Aphaca**, *Linn.**Yellow Vetchling.*Top. Bot. 124. *Purt.* i. 339. *Syme, E. B.* iii. 101. 397.Colonist; fields and railway banks. Very rare. *A.* June to September.  
First record, *Purton, Midland Flora*, 1817.4. AVON. As a garden weed, at Myton; railway bank, Milverton! *Brom.*8. ALNE. Alne Hills, *Purt.*, 340.**L. Nissolia**, *Linn.**Grass Vetch.*Top. Bot. 124. *Purt.* i. 339. *Syme, E. B.* iii. 102. 398.Native; fields, banks, roadsides, in *lias* soils. Rare. *A.* June-July.  
First record, *Purton, Midland Flora*, 1817.3. ANKER. Caldecote, *Power, M.S.*4. AVON. At the third milestone from Warwick, on the Stratford Road, 1831,  
*Perry, MS.* Abundant on the road from Stratford to Binton Bridges.5. LEAM. Tachbrook, *Brom.*7. STOUR. Honington, *Newb.*8. ALNE. Great Alne, *Purt.* i. 339. Wilmcote, *Blox.* Canal bank near  
Bearley; fields near Aston Cantlow; Drayton Rough Moors.9. ARROW. Coughton, *Purt.* i. 339.**L. pratensis**, *Linn.**Meadow Vetchling.*Top. Bot. 125. *Purt.* i. 338. *Syme, E. B.* iii. 104. 400.Native; meadows, banks, hedges. Common and generally distributed. *A.*  
June to August.

First record, Rugby School Report, 1868, near Rugby.

[\* *L. latifolius*, *Linn.* Alien; on waste places near Harbury Railway Station.  
Has been established there for many years abundantly.]**L. sylvestris**, *Linn.**Everlasting Pea.*Top. Bot. 125. *Syme, E. B.* iii. 107. 402. *L. latifolius*, *L.* *Purt.* i. 338.Native; woods and bushy places. Local. *P.* June to August.First record, *Perry List*, 1817.3. ANKER. Near Arbury Hall, *Kirk, Phyt.* ii. 970.4. AVON. Green's Grove, near Hatton! near Baly's Locks, Warwick, *Perry*  
*List*, 1817. Stone Quarry, Emscote, *Baynes.* Chesterton Wood! 1835,  
*Perry, MS.* Hampton Lucy; Milverton, *Brom.* Near Norton Lindsay.5. LEAM. Bubbenhall, near the bridge leading from Baginton, *Bree, Mag.*  
*Nat. Hist.* iii. 165.7. STOUR. Hedges between Ilmington and Stoke, *F. Townsend.*9. ARROW. Sperrall Park, also in a thicket between the hamlet and Oversley  
Wood, *Purt.* iii. 373.**L. macrorrhizus**, *Wimm.**Tuberous Peaseling.**Orobis tuberosus*, *L.* Top. Bot. 126. *Purt.* i. 340. *Syme, E. B.* iii. 110. 406.Native; woods, banks, roadsides. Local. *P.* May to August.First record, Ray, Catalogus, 1670. *Astragalus sylvaticus.* *Warwicii frequens.*

1. TAME. Arley ; Shustoke ; Kingsbury Wood ; near Old Fillongley Hall.
2. BLYTHE. Berkswell, *Grove*. Marston Green ; Coleshill Heath ; Henfield, near Knowle ; Wroxhall ; Earlswood ; Forshaw Heath.
3. ANKER. Rare. Parley Park ; near Hartshill Hayes ; near Tamworth.
4. AVON. Green's Grove, *Perry List*, 1817. Near Warwick Old Park, *Brom*. Ashorne.
5. LEAM. Ufton Wood, *Mrs. Tuckwell*.
6. SOW. Crackley Wood, near Kenilworth, *Perry List*, 1817. Honiley, *Y. and B.* Combe Woods, *Rugby Sch. Rep.* Combe Fields ; Allesley ; Wainbody Wood, Kenilworth.
7. STOUR. Heath land and lanes, Great Wolford.
8. ALNE. Umberslade, *Grove*. Chalcot Wood ; Lapworth Street ; Dilke's Lane, near Kingswood ; Claverdon ; Trap's Green, Alderhanger.
9. ARROW. Oversley Wood ; Ragley.

The variety *tenuifolius*, Roth., occurs with the type in most of the localities in which the plant is abundant, with intermediate forms.

## ORD. XXIV. ROSACEÆ.

### PRUNUS. *Linn.*

#### *P. communis*, *L.* *Blackthorn. Sloe.*

(*P. spinosa*, *L.*) Top. Bot. 126. *Purt.* i. 234. *Syme*, E. B. iii. 114. 408.  
Native ; hedges, woods, and bushy places. Common, and generally distributed.  
S. March to May.  
First record, the Author, 1869, Sutton Park.

Var. *b. fruticans* (Weihe). Astley ; Arley ; Wire Hill, near Sambourn ; Fenny Compton ; Ilmington ; Wimpstone ; Upton ; Ratley ; Farnborough.

This seems to be more a form than a variety.

#### *P. insititia*, *Linn.* *Bullace.*

Top. Bot. 126. *Syme*, E. B. iii. 117. 409.  
Native ; woods, hedges, thickets. Local. S. April-May.  
First record, Baxter, MS., about 1837.

2. BLYTHE. Coleshill Heath ; Marston Green ; Elmdon ; near Olton ; Bentley Heath, near Solihull.
3. ANKER. Several bushes between Wolvey and Shilton.
4. AVON. About Rugby and Hill Morton, *Baxter, MS.* Hatton, *Y. and B.* Hampton-on-the-Hill ! *Brom*. Salford, *Caswell*. Near Moreton Morrell, *Brom*. Ufton.
7. STOUR. Honington, *Newb.* Near Tredington, *F. Townsend*. Ilmington ; Atherstone-on-Stour.
8. ALNE. Drayton Bushes ; Pinley ; near Trap's Green.
9. ARROW. Wire Hill, Sambourn.
10. CHERWELL. Bridle Road, Wormleighton to Farnborough.

\**P. domestica*, Linn.*Wild Plum.*

Syme, E. B. iii. 118. 410.

Alien; hedges. Rare. T. April-May.

First record, the Author, Midland Naturalist, 1882.

2. BLYTHE. In a hedge, near Hockley, in fruit, 1878. Elmdon.
4. AVON. Salford Priors, *Caswell*.
8. ALNE. In a hedge, at Pinley! *Brom.* Claverdon; Lapworth Street; near Wolverton.
9. ARROW. Field, near Sambourn, lane from Astwood Bank.

*P. Avium*, Linn.*Wild Cherry.*Top. Bot. 129. Syme, E. B. iii. 119. 411. *P. Cerasus*, L., *Purt.* i. 233.

Native; hedges, woods, coppices. Local. T. April-May.

First record, Perry, MS., 1821.

1. TAME. Middleton Heath; spinney near Moxhall Hall; Fillongley.
2. BLYTHE. Wroxall, *Y. and B.* Several trees near Elmdon, in the Coventry Road; Olton; Coleshill; near Knowle Railway; Bentley Heath; Monkspath.
3. ANKER. Near Nuneaton; Hartshill; Chilvers Coton; Burton Hastings; Wolvey; near Seckington.
4. AVON. Near the Windmill Inn, Stratford Road, *Cheshire, Herb. Perry.* Hedges near Harborough Magna, *Blox., Baxter, MS.* Lower Norton, *Perry, MS.*, 1821. Grove Park, *Brom.*
5. LEAM. Ufton! *Y. and B.* Offchurch Heath; Southam Holt.
6. SOW. Combe Fields.
7. STOUR. Lane from Four Shire Stone to Great Wolford; Clifford Chambers.
8. ALNE. Near Maise Wood, Henley-in-Arden; Pinley.
9. ARROW. Coughton, near the railway station; wood near Astwood Bank; Coughton Common.
10. CHERWELL. Warmington! *Bolton King.*

"As we leave the district to the south of the Caspian and Black Seas, the bird cherry (*P. Avium*) becomes less common, less natural, and determined more perhaps by the birds which seek its fruit and carry the seeds from place to place. It cannot be doubted that it was thus naturalised from cultivation in the North of India, in many of the plains of the South of Europe, in Madeira, and here and there in the United States; but it is probable that in the greater part of Europe this took place in prehistoric times, seeing that the agency of birds was employed before the first migrations of nations, perhaps before there were men in Europe. Its area must have been extended in this region as the glaciers diminished."—*De Candolle, Origin of Cultivated Plants*, 206.

*P. Cerasus*, Linn.*Dwarf Cherry.*

Top. Bot. 129. Syme, E. B. iii. 122. 412.

Denizen or native; hedges, woods. Rather rare. T. April-May.

First record, Baynes, MS., 1831, near Leamington.

2. BLYTHE. Coleshill Heath; Solihull.
4. AVON. About Rugby it is rather abundant, especially on Jarret's Heath, between the town and the village of Dunchurch. 1834, *Baxter, B. Ph.* Near Rugby, on the Lawford Road, near Harborough Magna, *Blox., MS.* Edge Hill, *Cheshire, Herb. Per.* Oakley Wood! *Brom.* Wolstone Heath; Sherborne; Upper Evington.

5. LEAM. In a hedge beyond Leamington, two miles towards Radford, 1831, *Baynes, MS.* Bourton Common.
6. SOW. Binley Common Wood, *Kirk.* Near Burton Green ! *Brom.* Black Waste, near Berkswell.
7. STOUR. Compton Warren, near Brailes.
8. ALNE. Lapworth Street ; Pinley.
9. ARROW. Alcester, *Cheshire, Herb. Per.* Wire Hill, Sambourn ; near Ragley.
10. CHERWELL. Abundant by Compton Quarry, Avon Dassett.

**P. Padus, Linn.***Bird Cherry.*

Top. Bot. 127. Syme, E. B. iii. 123. 413.  
 Native ? woods, coppices. Rare. T. May.  
 First record, Cheshire, Herb. Perry, 1851.

1. TAME. Sutton Park ; Little Aston Park ; Maney, apparently *sponte*.
2. BLYTH. Several trees in wild pastures near Monkspath, Shirley ; probably native here.
4. AVON. Calloway's Wood, near Stratford-on-Avon ; Edge Hill, *Cheshire, Herb. Per.* Near Oakley Wood ; footpath, Sherborne to Snitterfield ; Wilderness, Grove Park, near Hatton, *Brom.*
6. SOW. Roadsides from Kenilworth to Burton Green, *Brom.*

**SPIRÆA. Linn.****S. Ulmaria, Linn.***Meadow Sweet.*

Top. Bot. 129. Purt. i. 238. Syme, E. B. iii. 126. 415.  
 Native ; river banks and other watery places. Common and generally distributed. P. June to August.  
 First record, F. Cross, Herb. Perry, 1874.

**S. Filipendula, Linn.***Dropwort.*

Top. Bot. 129. Purt. i. 238. Syme, E. B. iii. 128. 416.  
 Native ; banks, fields, in marly and calcareous soils. Rather rare. P. July-August.  
 First record, Purton, Midland Flora, 1817.

4. AVON. On a high bank,  $2\frac{1}{2}$  miles on the road to Birmingham from Warwick, *Perry, MS.* Whitnash, *Brom., Herb. Brit. Mus.* Burton Dassett, *Y. and B.* Moreton Morrell, *Brom.* Salford Lodge Wood, *Caswell.* Lighthorne, Compton Verney, *Bolton King.* Rugby, near the mill on the way to Brownsover, *Baxter, MS.* Near Little Lawford, *Rugby Sch. Rep.*, 1889. Chesterton ; Alveston Heath.
5. LEAM. Bascote Heath, 1832 ; near Offchurch, *Baynes, MS.* Itchington, *Y. and B.* Between Marton and Southam, *Bree, Mag. Nat. Hist.*, iii. 164. Whitnash Pastures.
7. STOUR. Armscote Meadows, *F. Townsend.* Honington, *Newb.* Fields south-west of the Rectory, Ilmington, *F. Townsend.*
8. ALNE. Abundant near Wilmcote, *Blox. in Litt.* In a field near Claverdon Station ; Snitterfield.
9. ARROW. Spennall ; Arrow, *Purt.*, i. 239. Railway bank, near Studley Railway Station.
10. CHERWELL. Avon Dassett.

**RUBUS.** *Linn.***R. Idæus, Linn.** *Raspberry.*

Top. Bot. 136. *Purt.* i. 242. Syme, E. B. iii. 160. 442.

Native ; woods, coppices, and damp heathy waysides. Locally common and rare. S. May to July.

First record, Ray, *Historia Plantarum*, vol. ii., 1688, *humido agro Warwicensi*.

1. **TAME.** Wood on south side of Edgbaston Pool, *With. Ed.* 5. iii. 573. In the neighbourhood of Aston, *Stokes, With. Ed.* 2. 524. Sutton Park ; Middleton Heath ; Plant's Brook ; near Curdworth Bridge ; Kingsbury.
2. **BLYTHE.** Coleshill Pool ; Maxstoke ; Marston Green ; near Patrick Bridge, Hampton-in-Arden ; Cornets End ; Berkswell ; Knowle ; Solihull ; lane by Packwood Mill ; Earlswood ; Clowes Wood ; Forshaw Heath ; Fulford Heath, &c.
3. **ANKER.** Seas Wood, Arbury ; Birch Coppice, Polesworth ; Baddesley Ensor.
4. **AVON.** Hedges and ditch banks about Rugby ! *Baxter in Purt.* iii. 361. Osier bed near the Woodloes ! *Perry, MS.* Waverley Wood, Stoneleigh ; Alveston Heath ; Edge Hill.
5. **LEAM.** Between Stoneleigh and Bubbenhall, *Baynes, MS.* Ufton Wood ; wood near Marton Railway Station ; Cubbington Wood.
6. **SOW.** Lanes about Allesley ! *Bree in Purt.* i. 242. Crackley Wood, Kenilworth ! *Per. Fl.* 44. Honiley ; Worsley Bridge ; Red Lane, Kenilworth ; Combe Woods ; Hollyberry End.
7. **STOUR.** Wood by Compton Warren, 1886 ; Lower Tysoe, abundant.
8. **ALNE.** Haywood ; Kingswood ; Packwood.
9. **ARROW.** Old Park Wood, near Alcester.
10. **CHERWELL.** Near Upton House, Edge Hill.

A variety, having a nearly prostrate habit and ternate leaves, is abundant near Meriden Shafts.

Var. *b. Leestii*, Bab. Very rare.

4. **AVON.** Osier bed near the Woodloes ! *Brom., Herb. Brit. Mus.*, 1875.

**R. suberectus, Anders.**

Syme, E. B. iii. 164. 444.

Native ; damp woods and heaths. Rare. S. June to August.

First record, Bloxam, *British Rubi*, page 53, 1869.

1. **TAME.** Sutton Park ; Trickley Coppice, Middleton ; Arley Wood.
2. **BLYTHE.** Olton Pool ; wood in Whey-porridge Lane, Solihull ; Clowes Wood, near Earlswood.
3. **ANKER.** Iron Stone Wood, Oldbury ; near Atherstone.
6. **SOW.** Clattyland Wood, Honiley, 1867, *Brom., Herb. Brit. Mus.*
8. **ALNE.** Haywood.

**R. fissus, Lindl.**

Top. Bot. 137. Syme, E. B. iii. 165.

Native ; damp woods, boggy heathlands. Rare. S. June-July.

First record, the Author, *Proceedings Birm. Nat. History Society*, 1870.

1. **TAME.** Sutton Park ; Trickley Coppice, Middleton ; Arley Wood.
2. **BLYTHE.** Chelmsley Wood, near Coleshill ; Cut-throat Coppice, Solihull.

3. ANKER. Birch coppice, near Polesworth; Bentley Park.
9. ARROW. Borders of Coughton Park, in lane to Sambourn.

Prof. Focke has seen and confirmed my Sutton Park specimens; these are typical of all recorded as above.

**R. pileatus, W. and N.**

Top. Bot. 137. Syme, E. B. iii. 166. 445.

Native; heaths and heathy waysides. Rare. S. June to August.

First record, Bloxam, Phytologist, 1844.

1. TAME. North end of Sutton Park.
2. BLYTHE. Heathy footways, road from Stonebridge to Castle Bromwich.
3. ANKER. Baxterley Common, and Bentley Park! *Blox., Brit. Rub.* p. 67. Birch coppice, near Polesworth.
6. SOW. Binley Common, near Willenhall, July 5th, 1884. Distributed to the members of the Botanical Exchange Club as *R. hemistemon*, Müll. The Rev. W. Moyle Rogers showed this to Dr. Focke during his visit to England, 1889, and that eminent authority decided that it was *R. plicatus*, W. and N.

**R. nitidus, W. and N. Var. hamulosus, P. J. Müll.**

Native; heathlands. Rare. S. June to August.

First record, the Author.

1. TAME. Sutton Park, near Birmingham (*Bagnall*, August 8th, 1873). *Notes on British Rubi, Babington, Journal of Bot.*, July, 1886.

This is an abundant plant in Sutton Park, but not seen elsewhere by myself. Recorded in *Journal of Botany*, April, 1888, as *R. plicatus* var. *rosulentus*. Dr. Focke, who saw specimens of this Sutton Park plant in the Rev. W. Moyle Rogers's herbarium, names this plant *R. plicatus*, W. and N., with which opinion also agree.

**R. affinis, W. and N.**

Top. Bot. 138. Syme, E. B. iii. 167.

Native; woods, heaths, and heathy waysides. S. June to August.

First record, the Author, *Proceedings Birm. Nat. Hist. Society*, 1869.

1. TAME. Sutton Park; Hill Hook; Middleton Heath; lane from Middleton Heath to Little Aston; Plant's Brook Reservoir; lane from Water Orton to Minworth.
2. BLYTHE. Marston Green; Hampton-in-Arden; road from Patrick Bridge to Kenilworth; Bannersley Rough.
3. ANKER. Grendon Wood, *Blox.* Parley Park, near Atherstone; road from Wolvey to Watling Street, abundant.
4. AVON. Dunchurch Road, near Rugby, abundant.
6. SOW. Binley Common, near Willenhall; Stoke Heath.
8. ALNE. Dilke's Lane, near Rowington.

**R. hemistemon, P. J. Müll.**

Top. Bot. 138. Bab., *Manual of Brit. Bot.*, Ed. 8, page 108.

Native; heathy, stony places. Very rare. S. June to August.

First record, the Author, *Journ. of Bot.*, April, 1880.

2. BLYTHE. Sand Quarry, Cornets End, near Berkswell, 1874.
3. ANKER. Atherstone Outwoods, *Blox., Herb. Bab.*

**R. Lindleyanus, Lees.**

Top. Bot. 138. Syme, E. B. iii. 168.

Native; woods, hedges. Local and rare. S. June to August.

First record, Bloxam, Babington's British Rubi, 1869.

1. TAME. Sutton Park; Middleton Heath; Arley; Kingsbury; Forge Mills; Shustoke.
2. BLYTHE. Coleshill Pool; Bannersley Pool; Marston Green; Hampton-in-Arden; Solihull; Earlswood; Knowle; Great Packington; Heach Wood, Maxstoke.
3. ANKER. Atherstone, *Blox., Bab. Brit. Rubi*, p. 80. Lane above Mancetter; Hartshill; road from Wolvey to Ryton; Attlebury Fields; road from Bole Hall to Atherstone. A remarkable form in the last locality, with clasping sepals. Very abundant also on heathy footways, Mancetter.
4. AVON. Rugby! *Blox., Bab. Brit. Rubi*, p. 80. Near Oakley Wood; Woodloes.
5. LEAM. Near Birdingbury and Marton; Itchington Holt.
6. SOW. Kenilworth; Allesley; Stoke; Kenilworth Common.
7. STOUR. Great Wolford Heath.
8. ALNE. Rowington; Lapworth Street; Claverdon; Wawen's Moor.
9. ARROW. Arrow Lane; Alcester Heath.
10. CHERWELL. Near Priors Marston; Shotswell.

Very rare in some of the districts drained by the Avon and its tributaries. A broad-leaved variety occurs at Coleshill Pool, Marston Green, Sutton Park, and on Wolvey Heath, which Professor Babington states is the *R. nitidus* (Bell-Salt).

**R. rhamnifolius, W. and N.**

Syme, E.B. iii. 168. 446.

Native; hedges. Local and rare. S. July to September.

First record, the Author, Proceed. Birm. Nat. History Society, 1869.

1. TAME. Sutton Park; Hill Hook; Middleton Heath; near Tyburn.
2. BLYTHE. Marston Green; Coleshill Heath; lane from Stonebridge to Castle Bromwich; Hay Lane, Shirley; Brockhill Lane, near Temple Balsall; lane by Chalcote Wood.
3. ANKER. Atherstone Outwoods; Ridge Lane, Bentley Park; Gully Gap, Stockingford; lane from Bole Hall to Atherstone; lane from Ryton to Wolvey.
4. AVON. Near Warwick, on the Banbury Road.
5. LEAM. Fosse Road, near Offchurch; lane above Dayman's Pool.
6. SOW. Rounsel Lane, near Kenilworth; Allesley.
7. STOUR. Great Wolford; Halford; Birmingham; Long Compton; Tysoe.
8. ALNE. Lane from Kingswood to Rowington; canal side, near Shrewley Tunnel; near Haywood; Snitterfield and Bearley Bushes; Umberslade.
9. ARROW. Alcester Heath; Sambourn; heathy footways, road from Studley Station to Astwood Bank; Rough Hill; Ipsley.

The variety which Mr. Bloxam named *R. cordifolius* occurs at rare intervals, as at Hill Hook; Snitterfield; Sambourn; and near Bentley Park; this seems to be merely a luxuriant form of the type.

**R. ramosus, Blox.**

Top. Bot. 139.

Native; hedges. Rare. S. July-August.

First record, Bloxam, Fasciculus of British Brambles, 1847.

1. TAME. Lane from Water Orton Station to Plant's Brook, near Minworth, very abundant.
3. ANKER. Hartshill Quarries; lane from Wolvey to Bulkington; lane from Bole Hall to Atherstone; lanes Wolvey to Shilton, and Wolvey to Ryton, in abundance. The plant from the last three localities seems to be identical with Mr. Bloxam's typical plant.
4. AVON. Near Rugby, *Blox.*, *Fasciculus of Brit. Brambles*.

The Minworth plant differs from that recorded from the other localities, and appears to me to be nearly if not quite identical with a plant Mr. Archer T. Briggs finds abundant around Plymouth, alluded to in *Flora of Plymouth*, p. 112. Prof. Focke considers the Plymouth plant to be *R. erythrinus*, *Genev.*, and to be little known in England. By the kindness of Mr. Archer Briggs I was enabled to compare fresh gathered specimens of the Plymouth plant with that at Minworth.

### ***R. pubescens*, *W. and N.***

*R. thyrsoides*, Wimm. *Top. Bot.* 139. Syme, E. B. iii. 172.

Native; hedges. Local and rare. S. July to September.  
First record, Babington, British Rubi, 1869, *R. thyrsoides*.

1. TAME. Near Hoare Park, Over Whitacre.
2. BLYTHE. Marston Green.
3. ANKER. Hartshill, *Bab. Brit. Rubi*, p. 111. Between Hartshill and Mancetter on the Atherstone Road abundantly, and in lane above Mancetter, in both places, the type and var. *macroacanthus*, *Blox*.
4. AVON. Lane from the Alcester Road to Bishopton, abundant; type. Alveston Heath, and road from Stratford to Loxley.
5. LEAM. Abundant near Sawbridge and Lower Shuckburgh.
6. SOW. Stoke, *Bab. Brit. Rubi*, p. 111.
7. STOUR. On the railway near Atherstone-on-Stour; near Tysoe; and near Compton Warren; Brailes.

The Warwickshire plant, in all the stations above recorded, is identical with Mr. Bloxam's Twycross plant. This he considered typical *R. thyrsoides*, Wimm. Specimens from Alveston Heath, near Stratford-on-Avon, were distributed by myself as *R. thyrsoides*. One of these was submitted to Dr. Focke by Rev. W. Moyle Rogers, and elicited the remark, "May be right, very near it."

#### **Var. *macroacanthus*, *Blox*.**

2. BLYTHE. Shirley and Solihull.
3. ANKER. Hartshill and Mancetter.
8. ALNE. Near Maise Wood, Henley-in-Arden.
9. ARROW. Wire Hill, Sambourn; Sperrall Ash.
10. CHERWELL. Near Priors Marston on the road to Napton.

This does not seem more than a form of the foregoing, having a more elongate panicle, larger leaves, and more strongly deflexed prickles on the panicle.

### ***R. rusticanus*, *Merc.***

#### ***Common Bramble.***

*R. discolor*, W. and N. *Top. Bot.* 139. Syme, E. B. iii. 170. 447.

Native; hedges. Common and generally distributed throughout the county. July to September. Shrub. A peculiar prostrate form occurs in Whichford Wood.

First record, Bloxam, British Rubi, 1869.

**R. leucostachys, Sm.**

Top. Bot. 140. Syme, E. B. iii. 172. 448.

Native; hedges. Frequent. S. July to September.

First record, Bloxam, British Rubi, 1869.

1. TAME. Sutton Park; Middleton Heath; Arley.
2. BLYTHE. Marston Green; Solihull; Knowle; Earlswood.
3. ANKER. Atherstone, *Blox.*, *Bab. Brit. Rubi*, 122. Bentley Park; Harts-hill; Ryton; Wolvey.
4. AVON. Rugby! *Blox.*, *Bab. Brit. Rubi*, 122. Stoneleigh.
5. LEAM. Weston Wood, near Cubbington; Offchurch; Marton; Long Itchington, etc.
6. SOW. Stivichall Common; Kenilworth; a form occurs in Red Lane, Kenilworth, which seems to be a hybrid between this and *R. mucronulatus*.
7. STOUR. Great Wolford; near Long Compton.
8. ALNE. Near Henley-in-Arden; Yarningale Common, and near Copt Green, a glandular ternate leaved form.
9. ARROW. Sambourn; Morton Bagot; Spennall Lane.
10. CHERWELL. Wormleighton; glandular form, near Ratley, Edge Hill.

Var. *conspicuus* (P. J. Müll). *R. vestitus*, Bell-Salt.

1. TAME. Sutton Park; Trickley Coppice, Middleton; Arley; Ballard's Green.
2. BLYTHE. Olton, canal bank; near Maxstoke Priory; Meriden; a very marked form, with closely felted leaves, strongly acuminate, occurs in Whey-porridge Lane. Solihull.
3. ANKER. Brettnal Wood near Ansley.
4. AVON. Chesterton Wood, a very glandular variety, thus named by Prof. Babington.
5. LEAM. Small coppice near Princethorpe; Shuckburgh.
6. SOW. Coventry Park, *T. Kirk, Herb. Brit. Mus.* Kenilworth Common; Allesley; Brinklow; Lammas Land, Coventry.
8. ALNE. Bearley and Snitterfield Bushes; coppice near Yarningale Common.
9. ARROW. Oversley Hill; Spennall Lane; Rough Hill and Wire Hill, Sambourn; Alcester Heath; Banum's Wood, near Morton Bagot, a ternate leaved form, with a very shaggy barren stem, and clasping sepals.
10. CHERWELL. Near Priors Hardwick.

This is throughout a very marked variety, having stronger affinities with the large forms of *R. rusticanus* than the typical *R. leucostachys* has.

**R. pyramidalis, Kalt. R. hirtifolius, M. and W.**

Native; bushy places and woods. Rare. S. July to September.

First record, the Author.

2. BLYTHE. Footway, from near Patrick Bridge to Meriden.
  7. STOUR. Moorland, near Whitehouse, Brailes.
  8. ALNE. Drayton Bushes; Drayton Rough Moors; near Preston Bagot.
- Compared with authentic specimens received from Mr. T. Archer Briggs.

**R. montanus, Wirtg.**

*R. Grabowskii*, W. Top. Bot. 140. Syme, E. B. iii. 173. 449.

Native; woods. Rare. S. July.

First record, Babington, British Rubi, 1869.

3. ANKER. Hartshill Wood, *Bab., Brit. Rubi*, 126
4. AVON. Rectory garden, Harborough Magna; introduced by *Rev. A. Bloxam*; in fine flower in 1875.

**R. Colemanii, Blox.**

Top. Bot. 140. Syme, E. B. iii. 174.  
Native; hedges. Rare. S. July-August.  
First record, T. Kirk, Herb. Perry, 1850.

6. SOW. Near the railway station at Coventry, *Bab., Brit. Rubi*, 130. *R. infestus*. Near the Six Fields, Coventry, *T. Kirk, Herb. Perry*.

Both these stations are now destroyed by building and other alterations.

**R. Salteri, Bab.**

Syme, E. B. iii. 174.  
Native; woods. Rare. S. July-August.  
First record, the Author, 1870.

1. TAME. Arley Wood; confirmed by *Prof. Babington* as "*Bloxam's Salteri*."
2. BLYTHE. Wood in Whey-porridge Lane, Solihull; named for me by *Prof. Babington*.
5. LEAM. Cubbington Wood.
8. ALNE. Austey Wood, near Wootton Wawen; Drayton Bushes, near Stratford-on-Avon.
9. ARROW. Wire Hill Wood, Sambourn; Old Park Wood, near Alcester.

*b. calvatus*, Blox. Syme, E. B. 175.

Native; hedges and quarries. Rare. S. July-August.

1. TAME. Sutton Park, above Bracebridge Pool; Trickle Coppice; Witton.
2. BLYTHE. Near Bannersley Pool, Coleshill, abundant; Boulton Wood; Coleshill Heath, with foliaceous sepals.
3. ANKER. Oldbury, near Atherstone; lane from Austrey to Appleby; road from Grendon to Warton; near the bridle road to Polesworth; lane from Alvecote to Watling Street.
6. SOW. Wyken Lane, near Coventry, named by *Professor Babington*, Kenilworth Heath.

This plant from Wyken Lane is a smaller plant than typical *R. calvatus*, and appears to be identical with Tab. xv. "*Rubi Germ.*," *R. silvaticus*, W and N.

**R. carpinifolius, W. and N.**

Syme, E. B. iii. 175.  
Native; hedges and heathlands. Rare. S. July-August.  
First record, the Author, 1869.

1. TAME. Abundant on heathlands, Sutton Park, named by *Prof. Babington*. Middleton Heath.
2. BLYTHE. Brookhill Lane, near Honiley; Redfen Lane, Berkswell.
3. ANKER. Near Shuttington Bridge; lane from Austrey to Appleby Road.
6. SOW. Kenilworth Heath, confirmed by *Prof. Babington*, who remarks "it is very like the tomentose plant referred to in *Brit. Rubi*, page 189, from Dr. Hort." Hearsal Common, with septenate leaves.

The Rev. W. Moyle Rogers communicates the following note, by Dr. Focke, on the Sutton Park *R. carpinifolius*:—"Probably *R. carpinifolius*, true plant, high arching, not rooting, no setæ on panicle, big yellow prickles."—W. O. F. These are precisely the characters of the plant from all the above-named stations.

**R. villicaulis, W. and N.**

Top. Bot. 141. Syme, E. B. iii. 176.

Native; hedges and woods. Local and rare. S. July-August.

First record, Babington, British Rubi, 1869.

1. TAME. Sutton Park; Doe Bank; near Moor Hall, Sutton; glandular variety. Trickley Coppice; New Park and Middleton Park.
2. BLYTHE. Meriden; lane from Meriden to Hampton-in-Arden; Hay Lane, near Solihull.
3. ANKER. Atherstone and Hartshill, *Bab., Brit. Rubi*, 146. Bentley Park; Birch Coppice, Polesworth; Gully Gap, Stockingford.
4. AVON. Leek Wootton.
6. SOW. Lane near Kenilworth Heath; Red Lane, Kenilworth, a form exactly like Rev. A. Ley's plant from Witney, Hereford, *R. silvaticus*, W. and N.
9. ARROW. Oversley Wood, Coughton Park.

The plants from the Middleton district are more glandular than the type.

Var. *b. adscitus*, Genev. *R. micans*, Gr. and Godr. Rare.

2. BLYTHE. Balsall Common.

6. SOW. Coventry Road between Allesley and Meriden, named by *Prof. Babington*.

**R. gratus, Focke.**

Native; banks, woods, and quarries. Rare. S. July-August.

First record, the Author.

2. BLYTHE. Quarry, Cornets End, Berkswell, confirmed by *Prof. Babington*.
3. ANKER. Lane from Alvecote to Watling Street; Ridge Lane; near Iron Stone Wood, Oldbury.
6. SOW. Kenilworth Heath, abundant.
8. ALNE. Haywood, named *R. calvatus* by Rev. A. Bloxam.

**R. Maassii, Focke.**

*R. umbrosus*, Arrh. Syme, E. B. iii. 177. British Rubi, 147.

Native; hedges, heaths, quarries. Locally abundant. S. July to September.

First record, the Author, *R. umbrosus*, 1869.

1. TAME. Sutton Park; Middleton Heath.
2. BLYTHE. Coleshill Heath; Bannersley Rough; Maxstoke Park; Meriden; near Olton; Shirley; Shelly Coppice; lane by Cut-throat, Umberslade.
3. ANKER. Ansley Heath; Bentley Park; road from Wolvey to Ryton.
5. LEAM. Frankton; Marton.
6. SOW. Rounsel Lane, Kenilworth; Tile Hill; lanes near Coventry.
7. STOUR. Great Wolford Heath; near Birmingham; near Long Compton.
8. ALNE. Lane from Haywood to Rowington.
9. ARROW. Alcester Heath.
10. CHERWELL. Lane from Farnborough to Avon Dasset.

I have not yet seen this plant in district 4, Avon, but am convinced that it will be found about Oakley, Tachbrook, or Rugby.

**R. macrophyllus, W. and N.**

Syme, E. B. iii. 177. 450.

Native; hedges, woods, and bushy places. Local and rare. S. July-August.

First record, T. Kirk, *Herb. Brit. Mus.*, 1854.

1. TAME. Trickley Coppice; Middleton; Arley.
2. BLYTHE. Coleshill Heath; Wild Lane, Bentley Heath, near Four Ashes; Shirley Street, glandular form.
3. ANKER. Near Alvecote Wood, glandular form; lane from Shuttington Bridge to Spring Coppice; Austrey, lane to Appleby; road from Wolvey to Ryton.
4. AVON. Dunchurch Road near Rugby.
5. LEAM. Near Cubbington Wood; near Sawbridge; Weston; Princethorpe; Southam Holt; Long Itchington.
6. SOW. Green Lane near Coventry, *T. Kirk, Herb. Brit. Mus.* Kenilworth Heath, glandular form.
7. STOUR. Hill Clump, *F. Townsend*. Old fox cover, Great Wolford; Wolford Heath; Little Wolford Fields; near Whitehouse, a form with large, simply serrate leaves, pink petals, and stamens shorter than the green styles, filaments white.
8. ALNE. Lane from Snitterfield to Wilmcote; Lapworth Street, near Copt Green.
9. ARROW. Morgrove Coppice, Spennall; Spennall Ash; Sambourn.
10. CHERWELL. Near Farnborough; abundant about Wormleighton; Priors Hardwick and Priors Marston.

Var. *b. Schlechtendalii* (W. and N.). Rare and local.

1. TAME. Sutton Park, confirmed by *Prof. Babington* and Dr. Focke, *vide* W. Moyle Rogers.
2. BLYTHE. Near Solihull; near Henfield and Temple Balsall; Baulk Lane; Reeves Green and Broad Lane, Berkswell, confirmed by Prof. Focke, *vide* W. Moyle Rogers.
3. ANKER. Road from Nuneaton to Atherstone, near the quarries, abundant; near Shilton in the road to Wolvey; Alvecote Mill.
4. AVON. Lane from Rounsel Lane to Leek Wootton.
5. LEAM. Lane to Snowford Bridge; Long Itchington.
6. SOW. Roadside beyond Stoke, on the road to Combefields.
7. STOUR. Little Wolford Fields.
8. ALNE. Lane near Baddesley Clinton; Haywood; path by Shrewley Canal Tunnel.
10. CHERWELL. Bridle road, Farnborough to Fenny Compton.

Var. *c. amplificatus* (Lees). Frequent and local.

1. TAME. Middleton Heath; near Castle Bromwich.
2. BLYTHE. Marston Green; Coleshill Heath; Solihull; Shelly Lane; canal side, near Knowle.
3. ANKER. Ansley Heath; Wolvey; Shuttington; Warton; near Shilton.
4. AVON. Old Park, Warwick, *Brom., Exch. Club Rep.*, 1879. Dunchurch Road, Rugby.
5. LEAM. Lane to Snowford Bridge, Long Itchington; near Frankton Wood.
6. SOW. Kenilworth Heath; near Coventry; Allesley.
7. STOUR. Long Compton; Great Wolford; Little Wolford.
8. ALNE. Haywood.
9. ARROW. Ipsley; Alcester Heath; Coughton; Sambourn; Wire Hill; Spennall; Oversley Wood.

Var. *d. glabratus*, Bab. Local and rare.

1. TAME. Sutton Park ; abundant, lane at Minworth.
2. BLYTHE. Small wood, Whey-porridge Lane ; lane, Meriden to Hampton-in-Arden ; near School Rough, Marston Green.
3. ANKER. Atherstone.
6. SOW. Crackley Wood, lane to Kenilworth.
7. STOUR. Hedge near moorlands, White House, Tysoe.
8. ALNE. Gannaway Grove, near Claverdon.

A marked robust form allied to *R. macrophyllus*, abundant at Hartshill in the quarries.

### *R. mucronatus*, Blox.

*R. mucronulatus*, Bor. Syme, E. B. iii. 178. 451. British Rubi, 159.  
Native ; hedges, woods, and waysides. Rare and local. S. July-August.  
First record, Babington's British Rubi, 1869.

1. TAME. Trickley Coppice, Middleton, abundant.
2. BLYTHE. Marston Green, in several places.
3. ANKER. Hartshill Wood ! *Brit. Rubi.*, 162. Bentley Park ; Atherstone Outwoods ; near Atherstone, on the Fazeley Road ; Hopwood Coal Wood ; Alvecote ; Birch Coppice, Polesworth.
4. AVON. The Grove, Stoneleigh.
5. LEAM. Cubbington Wood, abundant and typical.
6. SOW. Crackley Wood, near Kenilworth.
8. ALNE. High banks, lane from Wawen's Moor to Wootton Wawen ; Dilke's Lane, Rowington.
9. ARROW. Rough Hill Wood, Sambourn ; Morgrove Coppice, Sperrall.

The plants in Bentley Park, Hartshill Wood, and Alvecote are more glandular, and appear to be the *R. festivus*, Müll. See "Notes on Rubi," Journ. of Bot., 1878, page 116.

### *R. Sprengelii*, Weik.

Top. Bot. 143. Syme, E. B. iii. 179.  
Native ; woods, heaths, and waysides. Rare and local. S. July to September.  
First record, Bloxam, Herb. Borrer, British Museum, 1846 ?

1. TAME. Sutton Park ; Arley Wood.
2. BLYTHE. Coleshill Pool and Heath ; Chelmsley Wood ; Marston Green ; small wood, Solihull ; Tyburn Lane, Earlswood, confirmed by *Prof. Focke*.
3. ANKER. Birchley Heath ; Ansley ; Parley Park ; Birch Coppice, Polesworth.
4. AVON. Near Rugby, confirmed by *Professor Babington*, specimen from A. Bloxam, *Herb. Bor.* Cathiron Lane, near Brinklow.
6. SOW. Hearsall Common.
8. ALNE. Lane from Hatton to Newland's Wood.
9. ARROW. Rough Hill Wood, Sambourn.

*b. Borreri* (Bell-Salt). More rare.

1. TAME. Hedges, Windley Pool, Sutton Park ; very rampant.
2. BLYTHE. Banks, Shirley Street, near Solihull.
3. ANKER. Atherstone Outwoods ; Gin Wood, Oldbury.
6. SOW. Kenilworth Road, from Redfen Lane.
8. ALNE. Haywood.

This variety is a mere form of *R. Sprengelii*, scarcely worthy of separate mention.

**R. erubescens**, *Wirt.* *R. rubricolor*, *Blox.*, MS.

Native; hedges. Very rare. S. July-August.

First record, Bloxam in Fasciculus of British Rubi, about 1850.

3. ANKER. "Near Mancetter, Warwickshire (Rev. A. Bloxam), from which place he has kindly supplied me with specimens." *Syme, E. B.* iii. 180.

I have made several special visits to this locality, the exact whereabouts having been given me by the *Rev. A. Bloxam*, but I have never been able to find the plant.

**R. Bloxamii**, *Lees.*

Top. Bot. 143. *Syme, E. B.* iii. 180.

Native; hedges, woods, and heaths. Local and rare. S. July-August.

First record, Bloxam, *Herb. Borrer*, 1846.

1. TAME. Sutton Park; Hill Hook; Middleton Heath; Arley.
2. BLYTHE. Maxstoke; Coleshill Heath; lanes, Olton, and Solihull; near Berkswell Hall; Little Hell, near Honiley; Earlswood; Packwood.
3. ANKER. Near Hartshill! *Blox., Herb. Bor.* Very abundant about Hartshill; near Atherstone, *Brit. Rubi.*, 177. Ansley Heath; Bentley Park; Birch Coppice, Polesworth; Austrey; Wolvey; Mancetter; Nuneaton.
4. AVON. Near Rugby! *A. Blox., Herb. Bor.* Lanes about Brandon.
5. LEAM. Borders of Frankton Wood.
6. SOW. Rounsel Lane, Kenilworth; lanes about Allesley; Wainbody Wood, near Kenilworth.
8. ALNE. Dilke's Lane, near Kingswood.

**R. thyrsiflorus**, *W. and N.*

*Rubi Germ.* Tab. 34.

Native; hedges and woods. Rare and local. S. July-August.

First record, T. Kirk, *Herb. Babington*, 1854.

1. TAME. Sutton Park; Shawberries Wood.
2. BLYTHE. Hay Lane, Solihull; named by *Prof. Babington*.
3. ANKER. Bentley Park; Hartshill Hayes.
6. SOW. Near Kenilworth, *Kirk, Herb. Bab.* Crackley Lane and Wood, very abundant, confirmed by *Prof. Babington*. Red Lane, Kenilworth; Corley and Corley Rock.
7. STOUR. Old fox cover, Great Wolford, petals pink, stamens connivent equalling pale styles, sepals prolonged clasping, leaves, large coriaceous. *Prof. Babington* considers the Warwickshire plant to be the *R. myriadenophorus*, Rip. of Wirtgen's Monograph.

**R. rosaceus**, *W. and N.*

*Syme, E. B.* iii. 181.

Native; hedges and woods. Local and rare. S. July-August.

First record, the Author, *Proceedings Birm. Nat. Hist. Society*, 1870.

1. TAME. Sutton Park; near Hoare Park, Nether Whitacre, confirmed by *Dr. Focke, fide W. Moyle Rogers*! Ballard's Green, Arley.
2. BLYTHE. Near Meriden Cross; Boulton Wood; Fen End; Netherwood Heath, near Knowle.
3. ANKER. Abundant in the lane from Gulleypap to Stockingford.

4. AVON. All Oaks Wood, Cathiron Lane ; Alveston Pastures.
5. LEAM. Frankton Wood, Cubbington, and Princethorpe Woods.
6. SOW. Combe Woods, abundant at the end nearest to Brinklow ; confirmed by *Dr. Focke*.
8. ALNE. Lane near Packwood.

Var. *b. Hystrix*, Weihe.

Top. Bot. 143. Syme, E. B. iii. 181.

First record, Babington's British Rubi, 1869.

1. TAME. Darnel Hurst, Sutton Park ; Hoare Park, Nether Whitacre ; Shawberries Wood, near Shustoke ; Arley Wood.
3. ANKER. Atherstone, *Brit. Rubi*, 176. Bentley Park ; Ansley ; Harts-hill Wood ; Birch Coppice, Polesworth ; lane from Oldbury to Mancetter ; Atherstone Outwoods ; Alvecote Wood Lane.
4. AVON. Combe Woods, end nearest Brandon.
5. LEAM. Frankton Wood.
6. SOW. Crackley Wood, Kenilworth ; Wainbody Wood, and Red Lane, near Kenilworth.
8. ALNE. Haywood, drive nearest to Rowington ; Dilke's Lane, Kingswood ; Chalcot Wood.

### **R. Babingtonii**, *Salt*.

Native ; in hedges and woods. Rare. S. July-August.

First record, the Author.

1. TAME. Sutton Park, by Blackroot Pool, and on the heathlands, abundant ; Trickle Coppice.
3. ANKER. Heathland, near Atherstone Outwoods ; Parley Park.
4. AVON. Borders of Oakley Wood, near Warwick ; Leek Wootton end of Rounsel Lane ; Old Park, near Warwick.
10. CHERWELL. Characteristic form, near Ratley, Edge Hill.

This is a coarse robust Bramble, very characteristic in its habit, occurring abundantly in each of the stations given above. It is the No. 36 of a series of specimens sent by the writer to the British Museum in March, 1882.

### **R. scaber**, *W. and N.*

Top. Bot. 143. Syme, E. B. iii. 182.

Native ; damp bushy places and woods. Rare. S. July-August.

First record, Bloxam, *Herb. Borrer*, 1847.

1. TAME. Sutton Park, marsh above Blackroot Pool ; by Keeper's Pool, and in Upper Holly Hurst.
3. ANKER. Hartshill Wood ! *Blox., Herb. Bor.*, 1847. Bentley Park.

This is No. 37 of the set of Brambles sent to the British Museum, 1882. It grows with the type, and is always a very distinct looking plant ; having flat coriaceous leaves, finely dentate ; stem less hairy, setose, and prickly than in *R. Babingtonii* ; panicle more open, and habit of plant more erect. Mr. Bloxam confirmed it as his idea of true *R. scaber*.

### **R. echinatus**, *Lindl.*

*R. rudis*, W. Syme, E. B. iii. 183. British Rubi, 189.

Native ; hedges, woods, waysides. Frequent. S. July-August.

First record, the Author, 1869.

1. TAME. Sutton Park ; Erdington ; Middleton Heath ; Hurley ; Whitacre.
2. BLYTHE. Shelly and Shirley, near Solihull ; Damson Lane, Solihull ; Olton.
3. ANKER. Ansley Coalfield ; Iron Stone Wood, Oldbury ; Ansley, near village ; Atherstone Outwoods ; Alvecote ; Mancetter ; Bulkington.
4. AVON. Edge Hill ; near Oakley Wood ; Leek Wootton.
5. LEAM. Lane above Dayman's Pool, near Offchurch ; Cubbington Wood.
6. SOW. Kenilworth ; Red Lane, near Kenilworth ; Corley Moor ; near Combe Abbey.
7. STOUR. Compton Wynyates, *F. Townsend*. Lane to Great Wolford ; Long Compton ; Barton-on-the-Heath ; Oxhill ; Tysoe.
8. ALNE. Rowington ; Bearley ; Wilmcote ; Snitterfield ; Wawen's Moor ; Ullenhall ; Henley-in-Arden.
9. ARROW. Oversley Wood ; Arrow Lane ; Coughton Park ; Spennall.
10. CHERWELL. Near Ratley, Edge Hill ; Wormleighton.

Var. *microphyllus*, Blox. Rare.

1. TAME. Heathy footways, Middleton Heath.
4. AVON. Hedges, Leek Wootton.

This is exactly the *R. microphyllus* of Bloxam's Fasciculus, on which Prof. Babington, "Notes on British Rubi," 1886, J. of B., says : "These resemble the *R. sertiflorus*, Müll, as illustrated in the Herb. Génévier." It is No. 39 of the set sent to British Museum, 1882.

### *R. Radula*, Weihe. Syme, E. B. iii. 184. 452.

Native ; hedges and woods. Frequent. S. July to September.  
First record, A. Bloxam, Herb. Borrer, 1846.

1. TAME. Sutton Park ; Hill Hook ; Middleton Heath ; Forge Mills.
2. BLYTHE. Marston Green ; Solihull ; Earlswood.
3. ANKER. Amington ; Alvecote ; Wolvey ; Burton Hastings.
4. AVON. Rugby ; Harborough-Magna.
5. LEAM. Radford Semele ; Offchurch ; Long Itchington.
6. SOW. Near Kenilworth Castle, *Blox., Herb. Bor.*, 1846. Red Lane, near Kenilworth.
7. STOUR. Moorland, near Tysoe ; Great Wolford.
8. ALNE. Austey Wood, Wootton Wawen ; Great Alne.
9. ARROW. Oversley Wood ; Sambourn ; Spennall.
10. CHERWELL. Near Farnborough ; abundant near Priors Hardwick and Priors Marston.

Var. *b. Leightonii* (Lees). Local and rare.

1. TAME. Sutton Park ; Middleton Heath.
3. ANKER. Austrey, road to Appleby.
5. LEAM. Near Fenny Compton.
6. SOW. Allesley.
8. ALNE. Bearley Bushes ; Great Alne ; lane from Snitterfield to Wilmcote ; Drayton Bushes ; Baddesley Clinton.

A robust variety, very similar to the plant so named by the *Rev. A. Bloxam*.

### *R. anglo-saxonicus*, *Gelert*.

Native ; hedges and waysides. Rare. S. August-September.  
First record, the Author.

2. BLYTHE. Near Solihull, August 28, 1878, seen by *Dr. Focke* in *Rev. Moyle Rogers's* herbarium, and decided by him to be *R. anglo-saxonicus*. Lane from Patrick Bridge, Hampton-in-Arden, to Meriden.

3. ANKER. Alvecote, lane from the Mill to Watling Street.
7. STOUR. Near Whitehouse, Brailes.
8. ALNE. Drayton Bushes, near Stratford-on-Avon.

**R. Koehleri, Weihe.** Syme, E. B. iii. 186.

Native ; hedges and woods. Local. S. July to September.  
First record, the Author.

1. TAME. Sutton Park, confirmed by *Prof. Babington*; Hill Hook ; Arley ; Slowley Hill, near Shustoke ; Kingsbury Wood ; Middleton.
2. BLYTHE. Canal siding near Hampton Coppice ; near Little Hell ; Meriden Cross ; Maxstoke Park, confirmed by *Prof. Babington*.
3. ANKER. Lane from Oldbury to Mancetter ; Bentley Park ; lane by Alvecote Wood.
4. AVON. Dunchurch Road, near Rugby.
5. LEAM. Sawbridge ; Frankton Wood.
6. SOW. Hearsall Common, near Coventry ; near Combe Abbey, confirmed by *Prof. Babington*.

Var. *b. infestus*, Bab. Rather rare.

1. TAME. Sutton Park, abundant on heathlands, confirmed by *Bloxam*.
3. ANKER. Near Merivale, Stockingford Village ; Bentley Park.

**R. pallidus, Bab.**, not of *W. and N.*, probably *R. viridis*, Kaltenb.

Native ; hedges and woods. Common, and generally distributed throughout the county. S. July-August.

From the remarks made by *Prof. Babington* in his "Notes on British Rubi," *Journal of Bot.*, August, 1880, there seems to be some diversity of opinion respecting this plant. That which I have taken as my type is the plant which *Mr. Bloxam* issued as *R. Koehleri*, and this *Prof. Babington*, in *British Rubi*, considers true *R. pallidus*. *Mr. Bloxam* pointed it out to me in the Appleby Road, near Twycross. This is now considered by our best British authorities to be merely a weak form of *R. Koehleri*, and quite distinct from *R. pallidus*, *Weihe*.

**R. pallidus, Weihe.**

Native ; woods. Very rare. S. July to September.  
Only record, the Author.

6. SOW. Crackley Wood.

Formerly recorded as *R. humifusus*, but decided by *Dr. Focke*, from specimens seen in the herbarium of the Rev. W. Moyle Rogers, to be *R. pallidus*, *W.* This is at present the only Warwickshire station for this plant.

**R. fusco-ater, Weihe.**

Top. Bot. 145. Syme, E. B. iii. 186.

Native ; hedges and woods. Rare. S. July-August.  
First record, *Babington*, *British Rubi*, 1869.

1. TAME. Sutton Park, near Birmingham, *Brit. Rubi*, 216. Lane at Minworth, *Notes on Rubi, Journ. of Bot.*, 1878, p. 176.
4. AVON. Near Oakley Wood.
6. SOW. Wyken Lane, near Coventry.

The plant in Sutton Park I have been unable to find. The Minworth plant is, in my own opinion, *R. pilosus*, of Warren. This is the No. 48 of the set of Rubi sent to the British Museum in 1882. No. 49 of the same set represents the *R. fuscoater* of Mr. Bloxam; it is from the Lickey Hills, and the Oakley Wood plant is identical with it.

***R. emersistylus*, Müll. *R. Bagnallii*, Blox.**

Native; in woods. Very rare. S. July-August.

8. ALNE. Haywood, abundant. A description is given of this variety by Professor Babington "*Notes on Rubi*," *Journ. of Bot.*, 1878, pp. 175-6, where it is considered to be a variety of *R. emersistylus*, Müll. Professor Babington adds some interesting remarks to the description. Specimen 50 of the set sent to British Museum represents this plant.

***R. diversifolius*, Lindl.**

Syme, E. B. iii. 187.

Native; hedges, woods. Locally common. S. July to September.  
First record, the Author.

1. TAME. Sutton; Middleton Heath; Langley; Wishaw; Minworth.
2. BLYTHE. Coleshill Heath; Olton; Knowle.
3. ANKER. Atherstone; Birch Coppice, Polesworth; Mancetter.
4. AVON. Canal near Warwick; Salford Priors; Alveston.
5. LEAM. Frankton Lane; near Princethorpe; Shuckburgh; Long Itching-ton; Southam.
6. SOW. Combe Fields.
7. STOUR. Hill Clump, Honington, *F. Townsend*. Great Wolford; the prevailing bramble between Oxhill and Brailes; Barton-on-the-Heath.
8. ALNE. Lane from Wawen's Moor to Henley-in-Arden; lane from Wootton Wawen to Ullenhall; Shelfield.
9. ARROW. Near Alcester; Alcester Heath; Spennall.
10. CHERWELL. Between Fenny Compton and Farnborough; Priors Hardwick; Priors Marston.

A strongly marked variety occurs in the lane from Brandon to Combe Ridings, which Prof. Babington says "is very like the plant noticed from Waith in 'The British Rubi,' p. 224. At present I place it under *R. diversifolius*, for I do not think it belongs to *R. Kochleri*. It is a very beautiful plant." I believe this plant is *R. infestus*; it is No. 52 of the set sent to the British Museum.

***R. Lejeunii*, Weihe.**

Syme, E. B. iii. 187.

Native; woods and hedge banks. Rare. S. July-August.  
First record, Rev. A. Bloxam, 1877.

2. BLYTHE. Near Maxstoke Priory, *Rev. A. Bloxam in Litt.*, 1877.
3. ANKER. Friar's Wood, Bentley Park; lane by Bentley Park; border of coppice, near Oldbury.
8. ALNE. Lane from Rowington to Haywood.

The Bentley Park plant was sent to Professor Babington in 1879, on which he remarks, "I think that your *R. Lejeunii* is correct, although it has much more clothed stems than I have found usual. It seems to agree very fairly with *Focke* (p. 316), and reasonably well with *Rubi Germ.*, t. xxxi. It is also, I think, a

form of my plant so named. But Focke says that his plant is not that of 'Auct. Britan,' although he does not tell us what we ought to call our plant, nor did he send us a specimen of his plant." *Babington in Litt.*, Oct. 8, 1879. Mr. Rogers showed the plant from near Bentley Park thus named to *Prof. Focke*, who said emphatically "No," in which opinion I agree, but do not know where else to place it. The plants from the other stations I believe are correctly placed under this species.

**R. flexuosus, M. and L.**

Top. Bot. 146. Syme, E. B. iii. 188.

Native; woods, bushy places, and banks. Local and rare. S. July-August. First record, Bloxam, Herb. Borrer, 1846, *R. Guntheri*, W.

1. TAME. Sutton Park, in several places; wood, near Hoare Park; Atherstone Road, near Over Whitacre.
2. BLYTHE. Blackhill Wood, near Honiley.
3. ANKER. Abundant in Hartshill Wood! *Blax.*, *Herb. Bor.*, 1846. Atherstone Outwoods, *Brit. Rubi*, 238. Friar's Wood, Bentley Park; Hopwood Coal Wood; Ironstone Wood, near Oldbury; Parley Park; Caldecote Wood.
5. LEAM. Frankton Wood, 1886; Duke's Wood, near Princethorpe.
6. SOW. Fern Hill Wood; Wainbody Wood, near Kenilworth.
7. STOUR. Whichford Wood; Little Wolford Wood.
8. ALNE. Haywood; Baddesley Clinton.
9. ARROW. Old Park Wood, near Alcester; banks, Wire Hill, and Wire Hill Wood, Sambourn.

**R. fuscus, W. and N.**

Native; woods and hedges. S. July to September.

First record, the Author, 1890.

1. TAME. Trickley Coppice and New Park, Middleton; formerly distributed through Exchange Club as *R. adscitus*, so named by Professor Babington. More recently Professor Babington has informed me that he now considers it a form of *R. rosaceus*. Dr. Focke, who saw specimens in the herbarium of the Rev. W. Moyle Rogers, pronounced it to be *R. fuscus*, W. and N. Near Moor Hall and Sutton Park.
3. ANKER. Bentley Park.

**R. foliosus, Weihe., Blox.**

Top. Bot. 146. Syme, E. B. iii. 190.

Native; woods and hedges. Rare and local. S. July.

First record, Bloxam, Fasciculus of British Brambles, 1847.

1. TAME. Sutton Park; Plant's Brook. *R. atro-rubens*, Blox.
2. BLYTHE. Lane from Chelmsley Wood to Marston Green; Solihull; Elmdon; Bradnock's Marsh; Temple Balsall; Knowle; lane near Three May Poles, Shirley. *R. atro-rubens*, Blox., from all these stations.
3. ANKER. Annesley Coalfield Heath! *Syme, E. B. iii. 190.* Hartshill Wood, *Brit. Rubi*, 245. Hartshill; Oldbury; Birchley Heath; Mancetter; Nuneaton; lane from Stockingford to Chapel End; Parley Park; all from this district the type *R. foliosus*. Very abundant in the Annesley Coalfield district in 1877, but it is being rapidly destroyed by mining and building operations.

4. AVON. Alveston Pastures Wood ; Waverley Wood, near Stoneleigh.
5. LEAM. Frankton Wood, abundant ; Cubbington Wood.
6. SOW. Tile Hill Wood ; Crackley Wood and Lane.
8. ALNE. Haywood ; Dilkes Lane, Rowington ; Bearley, and Snitterfield Bushes ; near Grove Park.
9. ARROW. Spennall, on the road to Studley.

A valuable comment on this plant is given in "Notes on Rubi," Journal of Botany, 1878, p. 197. Professor Babington, in his recent paper, "Notes on British Rubi," Journal of Botany, August, 1886, combines *R. foliosus* with *R. atro-rubens*, as he does not consider them distinct, even as varieties. My own experience is that they differ widely in the field, in habit, form of leaves, and armature of the stems, as also in the disposition of the sepals, these being reflexed in *R. foliosus* and clasping in *R. atro-rubens*. I have, in deference to the views of so great an authority, combined the two plants in this record. *R. foliosus*, as understood by Mr. Bloxam, only occurs in the Anker district ; *R. atro-rubens*, as understood by Mr. Bloxam, in all the other districts enumerated. Professor Focke, to whom the Rev. W. Moyle Rogers showed plants from Solihull, Annesley and Oldbury, says :—"None of these (nor the Devon plant) are true *foliosus*, which is not distinct from *R. flexuosus*." See Journal of Botany, May, 1890.

**R. Bellardi, Weihe.** *R. glandulosus*, Bell.

Syme, E. B. iii. 191. Brit. Rubi, p. 246.  
Native ; woods. Very rare. S. July-August.  
First record, the Author, 1883.

3. ANKER. Hartshill Wood. Named by *Prof. Babington*

*b. dentatus*, Blox. Rare. Top. Bot. 146.

1. TAME. Hoare Park, Nether Whitacre.
2. BLYTHE. Near Boulthby Wood, Fillongley.
3. ANKER. Atherstone, *Blox., Brit. Rubi*, 253. Parley Park, near Atherstone, 1885, abundant ; Hartshill Wood.
6. SOW. Wood near Allesley.

**R. hirtus, W. and N.**

Syme, E. B. iii. 191. Brit. Rubi, 250.  
Native ; woods. Rare. S. July-August.  
First record, Bloxam, Fasciculus Brit. Rubi, 1847.

1. TAME. New Park, Middleton.
2. BLYTHE. Borders of Weigh Wood, near Meriden.
3. ANKER. Near Atherstone, *Blox., Fasc. Brit. Rubi*.
8. ALNE. Haywood ; Austey Wood ; Wootton Wawen.

*b. rotundifolius*, Blox. Rare.

1. TAME. Lane above Hoare Park, Shustoke ; Kingsbury Wood.
3. ANKER. Border of spinney, foot-road between Bentley Park and Oldbury, confirmed by *Prof. Babington*. Bentley Park ; Hartshill Wood.
8. ALNE. Hedges, Wawen's Moor, near Wootton Wawen.

*c. Reuteri* (Mercier). *Bab. Man. Ed. viii.*, page 121.

A plant in Bentley Park seems to belong to this variety. It seems identical with specimens received from Rev. W. H. Purchas from Penyard Park Wood, Ross. *Flor. Hereford*, pp. 105-6.

All the above, I believe, are merely marked varieties of *R. Bellardi*, Weihe.

**R. Balfourianus, Blox.**

Syme, E. B. iii. 192. Top. Bot. 147.

Native; hedges, woods. Local. S. July-August.

First record, Bloxam, 1847.

1. TAME. Lane by Butler's Wood, near Maxstoke; Birchley Heath.
2. BLYTHE. Near Packington Hall; lanes about Maxstoke; Stonebridge; Solihull; Shirley; lanes near Earlswood; Monkspath.
3. ANKER. Alvecote; Shuttington; lane from Baddesley Ensor to Polesworth; road from Bedworth to Bulkington.
4. AVON. Near Rugby! *Blox., Herb. Bor.*, 1847. All Oaks Wood, Cathiron Lane.
5. LEAM. Lane near Offchurch; near Princethorpe.
6. SOW. Near Coventry, *Kirk, Herb. Bor.* Mill Lane, Coventry (Kirk), *Brit. Rubi*, 261. Wyken; Binley Common; Ansty; Lutterworth Road, near Combe Abbey; Combe Woods; lanes about Willenhall; Tile Hill.
7. STOUR. Wolford Heath; near Halford.
8. ALNE. Shelfield Green; lane, Bearley to Alne; Snitterfield; Lapworth Street.
9. ARROW. Arrow Lane, near Old Park Wood.
10. CHERWELL. Shotswell; Warmington; Farnborough.

The variety *R. tenui-armatus*, Lees, is, I believe, identical with the *R. concinnus*, Baker, and will be recorded under *R. purpureus*, Bab.

**R. corylifolius, Sm. Var. a. subulstris (Lees).**

Syme, E. B. iii. 193. 455.

Native; hedges. Frequent. S. July to September.

First record, Kirk, *Herb. Brit. Museum*, 1855.

1. TAME. Sutton Park; Middleton Heath; Curdworth; Astley.
  2. BLYTHE. Marston Green; Hampton-in-Arden; Meriden Heath; Bentley Heath; lane by Shelly Coppice, Shirley; Earlswood.
  3. ANKER. Wolvey; Ryton; Burton Hastings; near Shilton.
  4. AVON. Myton, near Warwick; near Stratford-on-Avon; Chesterton; Oakley; Brandon; Rugby.
  5. LEAM. Near Birdingbury Station; Long Itchington; Marton; Princethorpe; Ufton Wood; Offchurch; Radford Semele.
  6. SOW. Folly Lane, near Stoke; *Kirk, Herb. Brit. Mus.* Binley.
  7. STOUR. Burmington; Oxhill; Tysoe; Long Compton.
  8. ALNE. Maise Wood, Beaudesert; lane near Yarningale; Lowson Ford; Hatton, canal bank.
  10. CHERWELL. Near Farnborough, abundant; Priors Hardwick.
- A small neat-leaved form allied to this abundant by Birdingbury Railway Station.

*b. conjungens*, Bab. Local and rare.

1. TAME. Sutton Park, named by *Prof. Babington*, not typical.
2. BLYTHE. Lane near Solihull.
3. ANKER. Marshy land Shuttington Bridge; road from Wolvey to Ryton; Amington, near Tamworth.
4. AVON. Dunchurch Road, near Rugby; Little Lawford Mill.
5. LEAM. Road from Marton to Princethorpe; near Ufton Wood; near Southam; Bourton to Princethorpe.

6. SOW. Stoke Heath; Lutterworth Road, near Combe Abbey; Corals Green, near Berkswell.
7. STOUR. Near Atherstone-on-Stour; Ilmington; Tysoe.
8. ALNE. Near Gannaway Gate; lane, Snitterfield to Wilmcote; Shrewley Common, named by *Prof. Babington*.
9. ARROW. Pit at Sambourn.
10. CHERWELL. Warmington; Avon Dassett; Priors Hardwick.

*c. fasciculatus* (P. J. Müll). *c. purpureus*, Bab. *concinus*, Baker.

1. TAME. Minworth; Curdworth; Arley; Astley.
2. BLYTHE. Maxstoke; Bickenhill; Knowle; Earlswood.
3. ANKER. Shuttington; Austrey; Caldecote; Burton Hastings; Wolvey.
4. AVON. Near Warwick; Rugby; Stratford-on-Avon; Luddington.
5. LEAM. Offchurch; Snowford Bridge; Hunningham; Ufton; road from Marton to Princethorpe.
6. SOW. Form with leafy panicle, Red Lane, Kenilworth; Corals Green.
7. STOUR. Near Tysoe; Oxhill; Ilmington.
8. ALNE. Lane, Wootton Wawen; Lowson Ford.
9. ARROW. Near Iron Cross; Alcester Heath; Rough Hill.
10. CHERWELL. Near Ratley, Edge Hill; Wormleighton Reservoir.

This is not only a very wide-spread variety, but a very greatly varying one. An extreme form, such as the plant collected by *Rev. W. H. Purchas*, near Ross, and named *R. Smithii* by the *Rev. A. Leighton, Flor. Hereford*, p. 107, occurs rarely, as at Steeple Hill, near Bidford; and in lanes about Wolvey; a form, with prickly barren stem, tending toward *R. diversifolius*, at Newbold-on-Avon; and near Rowington; a form with a panicle as leafy as that of *foliosus*, near Kenilworth; Maxstoke; and Ansley; and forms identical with the *R. tenui-armatus*, Lees, at Shustoke; Rowington; and other localities. All these may be traced in the districts where they are more abundant into the *R. purpureus*, Bab., which is merely a synonym for *R. concinns*, Baker. A very spiny form of *R. corylifolius*, named *R. spinosissimus* by the *Rev. A. Bloxam* was abundant in a hedge bank, Monkspath, near Shirley; and at Wyken Lane, near Coventry. These I now think are merely extreme forms of *R. fasciculatus*.

**R. deltoideus**, P. J. Müll. = *R. althaeifolius*, Host.

Bab. Brit. Rubi.

Native; hedges. Rare. S. July-August

First record, Bloxam, *Fasciculus British Rubi*, 1847.

4. AVON. Border of Chesterton Wood; Hampton-on-the-Hill.
5. LEAM. Road from Bourton to Birdingbury Railway Station; near Bishop's Itchington.
6. SOW. Near Coventry, *Blox., Fasciculus*. Wyken Lane, near Coventry; Rounsell Lane, Kenilworth; Hearsall Lane.
7. STOUR. Rough pastures near Honington Hall, just over the county border; near Atherstone-on-Stour.
8. ALNE. Hedges between Great Alne and Alcester; Barnmoor Green Claverdon; Austey Wood, Wootton Wawen.
9. ARROW. By Salford Bridge, in abundance, 1875 and '85.

**R. scabrosus**, P. J. Müll. *R. tuberculatus*, Bab.

Syme, E. B. iii. 194. Brit. Rubi, 280.

Native; hedges, woods. Local and rare. S. July-August.

First record, the Author, 1869.

1. TAME. Upper Witton ; Trickley Coppice, Middleton.
2. BLYTHE. Lanes about Maxstoke ; Bannersley Heath ; Sheldon ; Solihull to Shirley ; lane from Three May Poles to Warrener's Heath, Shirley ; Packwood Heath ; Broad Lane, Berkswell ; Little Packington.
3. ANKER. Lane out of Ridge Lane to Atherstone Road ; lane from Oldbury to Bentley Park ; Wetherley ; lane from Appleby Road to Austrey ; Seckington.
4. AVON. A form near this abundant on the Banbury Road, near Easington ; Old Park, Warwick, named by *Prof. Babington* ; near Sunrising, Edge Hill ; All Oaks Wood, Cathiron Lane.
5. LEAM. Between Cubbington and Princethorpe.
7. STOUR. Hill Clump, Burmington, *F. Townsend*. Road from Tysoe to Whitehouse ; Atherstone-on-Stour ; lane by Wolford Wood ; coppice, near Ilmington.
8. ALNE. Lane from Wootton Wawen to Wawen's Moor ; Maise Wood, Beadesert ; lane from Snitterfield to Wilmcote.
9. ARROW. Hedge, Morgrove Coppice, Spennall, with rose coloured flowers ; Arrow Lane, near Old Park Wood ; Shelfield Green.
10. CHERWELL. Near Upton House, Edge Hill.

**R. cæsius, Linn.***Dewberry.*

Top. Bot. 148. Syme, E. B. iii. 195. 456.

Native ; woods and banks. Local and rare. S. June to August.

First record, the Author, 1882.

*a. umbrosus, Reichb.*

3. ANKER. Between Nuneaton and Mancetter.
4. AVON. Salford Priors ! *Caswell*. Chesterton Wood ; Alveston Wood ; Lighthorne.
5. LEAM. Near Princethorpe ; canal side between Long Itchington and Radford Semele ; Ufton ; Thorpe Bridge, near Southam ; Bourton Heath ; Marton.
6. SOW. Near Brinklow ; Ansty.
7. STOUR. Lane to Great Wolford ; Ilmington ; Atherstone-on-Stour ; near Halford ; Whichford Wood.
8. ALNE. Drayton Bushes, named by *Prof. Babington*. Haselor ; Shelfield ; road from Bearley to Stratford-on-Avon.
9. ARROW. Near Salford Bridge.

*b. tenuis (Bell-Salt).*

2. BLYTHE. Maxstoke Priory Ruins ; walls of Maxstoke Churchyard ; Honiley Poor's Wood.
3. ANKER. Weddington ; lane above Mancetter.
4. AVON. Hedge of garden at Myton, Warwick ; borders of Chesterton Wood ; Alveston Pastures ; Newbold-on-Avon.
5. LEAM. Ufton Wood ; road from Princethorpe to Brinklow ; near Southam ; near Marton.
6. SOW. Combe Ridings, abundant.
7. STOUR. Lower Easington ; Atherstone-on-Stour.
8. ALNE. Austey Wood, near Wootton Wawen.
9. ARROW. Oversley Hill, near Alcester ; Morton Bagot.

*c. ligerinus (Genev.). Var. ulmifolius, Brit. Rubi.*

1. TAME. Hill Hook, near Sutton Coldfield.
2. BLYTHE. Near Bannersley Pool ; Monkspath, near Shirley.

4. AVON. Borders of Chesterton Wood.
5. LEAM. Coppice near Ufton Village; near Draycote; canal bank, near Bascote Heath.
6. SOW. Corley Moor.
7. STOUR. Ilmington; Great Wolford.
8. ALNE. Haselor; near Alcester, by the Church, on the banks of the Alne; near the tollgate between Red Hill and Alcester.
9. ARROW. By Salford Bridge, over the Arrow; Oversley Wood.

*d. intermedius*, Bab.

5. LEAM. Lane from Princethorpe to Brinklow.

8. ALNE. Lane from Shelfield to Great Alne.

These plants seem identical with a specimen so named from the *Rev. A. Bloxam*.

### GEUM. Linn.

*G. urbanum*, Linn.

*Avens.*

Top. Bot. 130. Purst. i. 241. Syme, E. B. iii. 197. 457.

Native; banks, waysides, woods. Common and generally distributed. P. May to August.

First localised record, the Author, 1876, Sutton Park.

*G. intermedium*, Ehrh.

Top. Bot. 130. Syme, E. B. iii. 199. 458.

Native; damp woods. Very rare. P. May to July.

First record, Baynes, 1832.

4. AVON. Chesterton Wood, *Y. and B.* All Oaks Wood, Cathiron Lane, near Brinklow, 1882.

5. LEAM. Ufton Wood! 1832, *Baynes, MS.*

6. SOW. Combe Woods! 1835, "*Mr. Moore, Leicester*," *Perry, MS.* Brook, near Honiley, *Brom.*

*G. rivale*, Linn.

*Water Avens.*

Top. Bot. 130. Syme, E. B. iii. 200. 459.

Native; woods, damp hedge banks. Rare. P. May to July.

First record, Ray, Catalogus, Ed. 2, 1677, unlocalised.

1. TAME. Arley Wood, *Bree, Mag. Nat. Hist.* iii. 165.

2. BLYTHE. Near Honiley, *Brom.* Damp meadows near Solihull.

4. AVON. Chesterton Wood, *Y. and B.* Lighthorne, *Miss Palmer.* All Oaks Wood. Cathiron Lane, near Brinklow.

5. LEAM. Ufton Wood! *Y. and B.*

6. SOW. Combe Abbey Woods, abundant, 1881.

8. ALNE. Near Wilmcote, *Blox.* Rowington, *Rev. P. Brodie.*

### FRAGARIA. Linn.

*F. vesca*, Linn.

*Wild Strawberry.*

Top. Bot. 135. Purst. i. 245. Syme, E. B. iii. 154. 438.

Native; woods, banks. Common, and generally distributed. P. April to July.

First localised record, the Author, 1876, Sutton Park.

\**F. elatior*, Ehrh.

*Hautboy Strawberry.*

Syme, E. B. iii. 156. 439.

Alien; woods, coppices, and hedge banks. Rare. P. April to June.

First record, Bloxam, *New Botanist's Guide Sup.*, 1837.

4. AVON. Grounds round Coton House, *Blox. N. B. G. S.* 613. Edge Hill, *Cheshire, Herb. Per.* Hampton-on-the-Hill; Norton Lindsay, *Brom.* Wood at Barford, *Brom. Exch. Club Report*, 1879, p. 7. In ballast pits, Lower Hill Morton Road, *Rugby Sch. Rep.* 1869. Coppice in the Warwick Road, near Wroxall Abbey, abundantly, in flower.

6. SOW. Near Fillongley, *Rev. D. C. O. Adams.*

Flowers very scarce some seasons.

### POTENTILLA. Linn.

#### *P. Fragariastrum*, Ehrh.

Top. Bot. 134. Syme, E. B. iii. 143. 427. *Fragaria sterilis*, L., *Purt.* i. 245. Native; dry banks, woods, waste places. Common, and generally distributed.

P. March to June.

First record, the Author, 1876, Sutton Park.

#### *P. Tormentilla*, Scop.

*Common Tormentil.*

Top. Bot. 133. Syme, E. B. iii. 146. 430. *Tormentilla officinale*, L., *Purt.* i. 240. Native; woods, heaths, and waysides. Common, and generally distributed.

P. May to August.

First known record, Ick, Analyst, 1837.

#### *P. proeumbens*, Sibth.

*Creeping Tormentil.*

Top. Bot. 133. Syme, E. B. iii. 147. 431.

Native; heathy places and woods. Rare. P. June to August.

First record, Ick, Analyst, 1837.

1. TAME. Edgbaston Lane, *Ick, Anal.*, 1837.

2. BLYTHE. Coleshill Heath; Solihull; (Shelly, Four Ashes. *Var. mixta*, Nolte.) Lane from Monkspath to Shirley. Type.

3. ANKER. Lane from Ryton to Wolvey; (Watling Street, near Weddington Wood; Hartshill Quarries, *mixta*).

4. AVON. King's Lane, Stratford-on-Avon, *Cheshire. Herb. Per.* High Down; Tachbrook, *Brom.*

5. LEAM. Itchington Holt, *Brom.* Princethorpe Wood.

6. SOW. Rounsel Lane, Kenilworth! *Perry, MS.* Haseley; Beausale Common, *Brom.*

9. ARROW. Coughton Park, and roadsides outside Coughton Park.

#### *P. reptans*, Linn.

*Creeping Cinquefoil.*

Top. Bot. 133. *Purt.* i. 239. Syme, E. B. iii. 148. 432.

Native; marly banks and heathy footways. Frequent, and generally distributed. P. May to September.

First record, Perry. *Plantæ Selectæ*, 1820. *Tormentilla reptans*,

**P. anserina**, Linn. *Silver Weed.*

Top. Bot. 132. Purt. i. 240. Syme, E. B. iii. 149. 433.  
 Native; damp and sandy waysides. Common, and generally distributed. P.  
 May to August.  
 First record, the Author, 1869, Proceedings Birm. Nat. History Society.

**P. argentea**, Linn. *Hoary Cinquefoil.*

Top. Bot. 132. Purt. iii. 40. Syme, E. B. iii. 151. 435.  
 Native; heathy and sandy places. Very rare. P. June to September.  
 First record, Perry, *Plantæ Selectæ*, 1820.

2. BLYTHE. Coleshill Heath, *Bree in Purt.* iii. 40.
3. ANKER. Griff Hollows, *Kirk, Herb. Per.*
4. AVON. On a sand rock near the Woodloes, *Per. Fl.* 44. Blacklow Hill, *Perry, MS.*, 1830. Gaveston Hill, *Brom.*

**P. palustris**, Scop. *Marsh Cinquefoil.*

*Comarum palustre*, L. Top. Bot. 134. Purt. i. 248. *P. Comarum*, Nestl.  
 Syme, E. B. iii. 153. 437.  
 Native; pools, marshes, and bogs. Rare. P. June to September.  
 First record, Withering, Botanical Arrangement, 1801.

1. TAME. S.-W. side of Edgbaston Pool, *With. Ed.* 4. iii. 470. Sutton Park! *Freeman, Phyt.* i. 262. Hill Hook.
2. BLYTHE. Coleshill Bog, *Purt.* i. 248. N. side of Bannersley Pool! *Per. Fl.* 45. Bannersley Rough; Coleshill Pool; marsh, near Packington.
6. SOW. Allesley Wood, *Bree in Purt.* iii. 362. Pond, near Tile Hill Wood, 1882.
8. ALNE. Bearley Bushes, 1883.

**ALCHEMILLA**. Linn.**A. arvensis**, Scop. *Field Lady's Mantle. Parsley Piert.*

Top. Bot. 157. *Aphanes*, L. Purt. i. 48. Syme, E. B. iii. 136. 422.  
 Native; fields and waysides. Common, and generally distributed. A. April to August.  
 First record, Rugby School Report, 1868, near Rugby.

**A. vulgaris**, Linn. *Common Lady's Mantle.*

Top. Bot. 156. Purt. i. 102. Syme, E. B. iii. 137. 423.  
 Native; fields and waysides. Local. P. April to August.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Middleton; Curdworth Bridge; Ballard's Green; Arley.
2. BLYTHE. Wroxall, *Y. and B.* Coleshill Heath; Packington; Marston Green; Hampton-in-Arden; Bradnock's Marsh; Knowle; Packwood; Bentley Heath; Earlswood.
3. ANKER. Quarries, Hartshill; near Tamworth.
4. AVON. Bilton, *Baxter, MS.* Milverton, *Brom.* Near Lawford, *Rugby Sch. Rep.* Near Guy's Cliff, *Baynes, MS.* Hatton, *Perry, MS.* Gaydon, *Bolton King.*

5. LEAM. Harbury Heath.
6. SOW. Combe Fields ; Wroxall.
7. STOUR. Idlicote, *Gorle*.
8. ALNE. Tanworth, *Purt.* i. 102. Near Claverdon, *Perry, MS.* High Cross ; Bushwood, Lapworth.
9. ARROW. Oversley, *Purt.* i. 103. Wire Hill, near Studley.
10. CHERWELL. Footways, near Ratley.

The form with leaves and petioles pilose on the underside is the most frequent in Warwickshire.

### AGRIMONIA. *Linn.*

#### A. Eupatoria, *Linn.* *Common Agrimony.*

Top. Bot. 154. *Purt.* i. 228. Syme, E. B. iii. 129. 417.  
Native ; hedge banks, waysides. Common, and generally distributed. P.  
July to September.  
First record, J. Baly, Herb. Perry, 1843.

#### A. odorata, *Miller.* *Rare.*

Top. Bot. 154. Syme, E. B. iii. 131. 418.  
Native ; woods, bushy places. Rare. P. July to September.  
First record, Cheshire, Herb. Perry, 1855.

2. BLYTHE. Packington Park, *Grove*, 1886.
3. ANKER. Near Austrey ; Tamworth, on marly banks, 1885.
4. AVON. New Waters, Warwick, *Herb. Per.*
5. LEAM. Near Frankton, 1886.
6. SOW. Rounsel Lane ! *Brom.* Honiley ! *Y. and B.*
7. STOUR. Near the turn for Oxhill, on the Banbury Road ; Lower Eatington ; Great Wolford Wood, 1886.
8. ALNE. Snitterfield Bushes ! *Cheshire, Herb. Per.* Bearley Bushes, and lane by this, abundant, 1884.
9. ARROW. Oversley Wood, abundant, 1878.

### POTERIUM. *Linn.*

#### P. Sanguisorba, *Linn.* *Common Salad Burnet.*

Top. Bot. 155. *Purt.* ii. 463. Syme, E. B. iii. 133. 420.  
Native ; marly banks, pastures, &c. Local. P. May to July.  
First known record, Perry, MS., 1825.

1. TAME. Oscott Plantations, *Caswell.* Gravelly Hill.
2. BLYTHE. Railway banks, near Knowle Station, 1868 ; near Sheldon Church.
3. ANKER. Near Austrey, Tamworth.
4. AVON. Between Hampton-on-the-Hill and Norton Lindsay, 1825. Hampton Lucy ; Guy's Cliff, *Perry, MS.* Meadows and pastures, Rugby, *Baxter, MS.* Salford Priors, *Caswell.* Lighthorne, *Miss Palmer.* Waysides between Alcester and Stratford-on-Avon ; Binton ; Ashorne ; Brandon.
5. LEAM. Between Radford Semele and Offchurch, near the canal bridge, *Baynes, MS.* Harbury Heath.
7. STOUR. Lambcote ; Honington, *Newb.*

8. ALNE. Near Wilmcote, *Blox., MS.* Near Bearley Cross ; Pinley Green ; Henley-in-Arden ; Wootton Wawen.
9. ARROW. Arrow ; rough pastures, near Morton Bagot ; Broom.
10. CHERWELL. Pastures, near Farnborough ; near Roman Encampment, Edge Hill ; near Avon Dassett.

**\*P. muricatum, Spach.** Syme, E. B. iii. 135. 421.

Denizen or colonist ; banks and cultivated fields. Local and rare. P. May to August.

First record, T. Kirk, *Phytologist*, 1843.

1. TAME. Banks, Whitacre and Plant's Brook Reservoirs, abundant, 1883.
2. BLYTHE. Knowle, railway bank.
4. AVON. Near the footpath to Lawford, *Rugby Sch. Rep.*, 1877. Red Hill ; Binton ; Edge Hill.
5. LEAM. Railway cutting between Kenilworth and Leamington, *Anna Russell, Herb. Brit. Mus.* Harbury ; Princethorpe.
6. SOW. Railway cutting between Coventry and Leamington, *T. Kirk, Phyt.* iii. 715. "The variety *a. platylophium* I have from Kenilworth, Warwickshire." Syme, E. B. iii. 135.
7. STOUR. Near Traitor's Ford.
8. ALNE. Marly banks, near Drayton Bushes.
9. ARROW. Ladies' Wood, near Ragley.

Both the forms occur in this county, but I have not discriminated between them, as they are difficult to identify unless the fruit is well developed.

**P. officinale, Hook, fil.**

*Great Burnet.*

*Sanguisorba officinale*, L. Top. Bot. 154. *Purt.* i. 93. Syme, E. B. iii. 132. 419.

Native ; meadows in marly soils. Local. P. June to August.

First record, Perry List, 1817.

1. TAME. Common in meadows at Edgbaston, *Ick*, 1838. Westwood Coppice, *Caswell*. Curdworth ; pastures, Nether Whitacre ; Hurley.
2. BLYTHE. Temple Balsall, *Perry, MS.* Marston Green, Blythe Bridge, near Solihull ; Barston ; Barston Marsh ; corn fields, Kenwalsy ; Bradnock's Marsh.
3. ANKER. Arbury Hall, *Kirk, Phyt.* ii. 969. Grendon ; Shuttington ; Wolvey.
4. AVON. Meadows near Rugby, *Baxter, MS.* Meadows round Warwick, *Perry*, 1817. Meadows near the Avon, at Rugby, *N. B. G.* Salford, *Caswell*. Gaydon, *Bolton Keng.* Near Brandon ; Binton Bridges.
5. LEAM. The Common between Offchurch and Bascote, *Baynes, MS.* Near the Fosseway, Harbury, *Brom.* Birdingbury.
6. SOW. Meadows at Norbrook, *Perry, MS.* Binley ; Stivichall, *Kirk, Phyt.* ii. 969. Pastures near Sow Village ; canal side, near Ansty ; and Combe Fields.
7. STOUR. Darlingscote ; Lambcote ; Honington, *Newb.* Wimpstone Fields.
8. ALNE. Moist meadows at Upton ; in Haselor parish, *Purt.* i. 93. Pinley, *Kirk, Phyt.* ii. 969. Hilly pastures, near Great Alne ; Wawen's Moor, near Henley-in-Arden.
9. ARROW. Pastures near Sambourn.
10. CHERWELL. Pastures, Avon Dassett.

ROSA. *Linn.***R. spinosissima, Linn.** *Burnet Rose.*

Top. Bot. 148. *Purt.* i. 245. Syme, E. B. iii. 203. 461.  
Native; hedges and heathlands. Rare. S. June-July.  
First record, Perry List, 1817, with rose flowers.

4. AVON. Var. *flore-rubro* at Guy's Cliff, *Bree in Purt.* iii. 44. With rose flowers, between Stratford and Warwick, *Perry List*, 1817. Hampton-on-the-Hill; Sherborne, *Brom.* Lighthorne; Wellesbourn, *Bolton King.* Oakley.
5. LEAM. Ufton; Harbury; Radbourne, *Bolton King.*
6. SOW. Haseley, *Brom.*
8. ALNE. Norton Lindsay, *Brom.* Billesley; Haselor; Drayton Rough Moors.
9. ARROW. Arrow Lane, near Alcester.

Var. *b.* peduncles acuminate. More rare.

4. AVON. High Down; Bishop's Tachbrook; Chesterton Wood! Moreton Morrell, *Brom.*
8. ALNE. Little Alne.

**R. involuta, Sm.**

*R. Sabini*, Woods. Top. Bot. 149. *Purt.* iii. 45. Syme, E. B. iii. 206. 465.  
Native; hedges and bushy places. Rare. Shrub. June-July.  
First record, Purton, Midland Flora, 1821.

2. BLYTHE. Hampton-in-Arden.
4. AVON. Oakley! Tachbrook; Sherborne, *Brom.* Chesterton Wood.
8. ALNE. Lye Green! Yarningale, *Brom.* Claverdon.
9. ARROW. On a high bank at Wood Bevington, *Purt. in note*, iii. 45.

*b. Doniana* (Woods). Very rare.

First record, Bree in Midland Flora, 1821,

4. AVON. Woodloes, near Warwick! *Brom.*
6. SOW. Allesley,\* *Bree, Purt.* iii. 46. Coventry Road, near Kenilworth! *Brom.*
8. ALNE. Claverdon, *Bree, Mag. Nat. Hist.* iii. 164.

\* "With respect to the rose found by Mr. Bree at Allesley, Mr. S(abine) is satisfied that it is a variety (not the type) of *R. Doniana*. I sent a specimen of this rose to Mr. Lindley, who (by to-day's post) has confirmed it to be *Rosa Sabini*, Vera."—*Purt. note Mid. Flora*, iii. 45-46.

[\*\**R. hibernica*, Sm. Introduced.

Several bushes of this plant in Harborough Magna Churchyard, 1875. These Mr. Bloxam informed me he had grown from seeds brought from the Welsh station for this plant.]

**R. mollis, Sm.** *Soft-leaved Rose.*

*Purt.* iii. 43. *R. mollissima*, F. Top. Bot. 150. Syme, E. B. iii. 208. 466.  
Native; hedges. Rare. S. June-July.  
First record, Purton, Midland Flora, 1821.

1. TAME. Lane above Hoare Park ; Nether Whitacre.
2. BLYTHE. Meadows near Blythe Bridge, confirmed by *Dr. Christ.* Whey-porridge Lane, confirmed by *Mr. J. G. Baker.* Near Meriden Shafts.
4. AVON. *R. Villosa.* About Rugby, Dunchurch Road, Hill Morton. *Baxter MS.*
6. SOW. Allesley, *Bolton King!*
8. ALNE. Snitterfield Bushes, 1884.
9. ARROW. Pophills Lane, *Purt.* iii. 44.

### *R. tomentosa, Sm.*

Top. Bot. 150. *Purt.* ii. 736. Syme, E. B. iii. 208. 467.  
Native ; hedges, woods. Local, but widely distributed. S. June-July.  
First record, Bree in Midland Flora, 1817.

1. TAME. Sutton Park ; Hill Hook ; Trickle Coppe ; Four Oaks ; Middleton Heath.
2. BLYTHE. Lane, Fillongley to Packington ; near Blythe Hall ; Hampton-in-Arden ; Shirley Heath.
3. ANKER. Road from Burton Hastings to Anker Bridge.
4. AVON. Harborough Magna ! *Blox.* Hatton ! *Brom.*
6. SOW. Allesley, *Bree in Purt.*, ii. 736. Willenhall.
7. STOUR. Lane to Great Wolford ; Whichford Wood.
8. ALNE. Wilmcote, *Blox.* Yarningale ; Lapworth Street.
9. ARROW. Wire Hall, Sambourn ; Spennall Lane.

*b. subglobosa* (Sm.) Local, but widely spread.

1. TAME. Sutton Park ; Four Oaks ; Doe Bank ; near Over Whitacre ; Trickle Coppe, confirmed by *Dr. Christ.*
2. BLYTHE. Coleshill Heath, confirmed by *Dr. Christ.* Near Maxstoke ; Bentley Heath ; Holly Lane, near Honiley ; Balsall Street ; Shirley.
3. ANKER. Hartshill ; Atherstone ; Burton Hastings.
4. AVON. Chesterton Wood, *Brom.*
8. ALNE. Star Lane, Claverdon ; Pinley, near Hatton.
9. ARROW. Arrow Lane, near Alcester ; Exhall.

*d. scabriuscula* (Sm.) Rare.

1. TAME. Near Shustoke.
2. BLYTHE. Footway, Baulk Lane, Berkswell, confirmed by *Dr. Christ.*
4. AVON. Chesterton Wood ! *Brom.* *Herb. Brit. Mus.* Harborough Magna ! *Blox.* Cathiron Lane, near Harborough Magna ; the plant from this locality is nearly identical with the *R. Woodsiana*, Groves, which is nearly allied to *R. fetida*, Bast.
6. SOW. Haseley Common, *Brom.*
8. ALNE. Rowington ; Pinley Green.
9. ARROW. By New Coppe, Sambourn, in the road to Evesham ; near Studley Railway Station.

*e. fetida* (Bast.) Rare.

1. TAME. Near Little Aston Park ; Shustoke.
2. BLYTHE. Road from Maxstoke to Blythe Hall.
3. ANKER. *R. cuspidata.* Atherstone, *Blox.*, *Fasc. Brit. Roses.*
4. AVON. Harborough Magna ! *Blox.* Chesterton Wood ! Wellesbourne Hastings ! Tachbrook ! *Brom.*
7. STOUR. Whichford Village.
8. ALNE. Rowington ; Yarningale.

A form near typical *R. tomentosa*, having clothed eglandular leaves, occurs over a wide area, and has been collected by myself as follows :—Bentley Heath ; Crackley Lane, Kenilworth ; Bushwood ; Pinley ; Lapworth Street ; Yarningale ; Arrow Lane. I have a similar form from *Mr. T. R. A. Briggs*, from near Plymouth.

[\*\* *R. sylvestris*, Woods. In the churchyard at Harborough Magna, planted there by the Rev. A. Bloxam, roots from North Wales.]

**R. rubiginosa**, Linn. *Sweetbriar. Eglantine.*

Top. Bot. 151. *Purt.* i. 247. Syme, E. B. iii. 210. 468.  
Native ; hedges and bushy places. Rare. S. June-July.  
First record, Purton, Midland Flora, 1817.

2. BLYTHE. Coleshill Heath ; meadow path from Solihull to Blythe Bridge.
4. AVON. Hampton-on-the-Hill, *Brom.* Salford Priors, *Caswell.* Oakley Wood, *Miss Palmer.*
6. SOW. Allesley, *Bree, New Bot. Guide.* Crackley Wood, near Kenilworth, *Brom.*
8. ALNE. Alne Hills above the village, *Purt.* i. 248. Wilmcote, *Blox.* Yarningale Common ! *Brom.* Bushy Common, Billesley, near Alcester.
9. ARROW. Sperrall, near the village.

**R. micrantha**, Sm. *Small-flowered Sweetbriar.*

Top. Bot. 151. *Purt.* iii. 40. Syme, E. B. iii. 211. 469.  
Native ; wood and hedges. Local and rare. S. June-July.  
First record, Purton, Midland Flora, 1821.

1. TAME. Tumble Hole, Shustoke ; lane to Arley Wood.
2. BLYTHE. Lane from Hampton-in-Arden to Knowle ; a small neat-leaved form, Whey-porridge Lane, Solihull ; Coleshill Heath ; near Meriden.
3. ANKER. Road from Wolvey to Wolvey Heath, in hedges.
4. AVON. Between Bidford and the Grange, *Bree in Purt.* iii. 40. Norton Lindsay ; Chesterton Wood ! Moreton Morrell, *Brom.* Bishop's Green, Lighthorne, *Bolton King.* Cathiron Lane, near Brinklow ; Lighthorne Rough ; Oakley.
5. LEAM. Itchington Holt, abundant.
6. SOW. Allesley, *Bree in Purt.* iii. 40.
7. STOUR. Long Compton Wood, more glandular than type.
8. ALNE. Bearley, canal bank ; Drayton Rough Moors ; heathy pastures, Billesley ; Lapworth Street ; near Bearley Cross.
9. ARROW. Ragley Woods ; field near the road from Astwood Bank to Studley Railway Station.

[\*\* *b. Briggsii*, Baker. Two or three bushes in Harborough Magna Churchyard, grown from seeds sent to the Rev. A. Bloxam by Mr. T. R. Archer Briggs. These plants show the peculiar characteristics of the parent plant.]

*c. hystrix* (Leman). Very rare.

8. ALNE. Heathy pasture, Billesley ; named for me by *Dr. Christ*, 1880.

**R. agrestis**, Savi. *b. Billietii* (Puget). *R. sepium*, Thuill.

Top. Bot. 150. *Purt.* iii. 41. Syme, E. B. iii. 212. 470.  
Native ; hedges. Very rare. S. June.  
First record, Bree, Midland Flora, 1821. *R. sepium.*

4. AVON. In a small hedgerow in a pasture field, near Bidford Grange ; at the back of the brick kiln, on the Stratford Road, 1818, *Bree in Purt.* iii. 41. Near Bridford (Bidford), Warwickshire (*Rev. W. T. Bree.*) *Lindley, Syn.*, 101.
6. SOW. In Britain I have only seen this from Allesley, Warwickshire, where it was gathered by the *Rev. W. T. Bree, Baker, Proc. Linn. Soc.*, vol. xi. 224.

Mr. Bloxam informed me that Mr. Bree transplanted this rose from Bidford to the Rectory Garden at Allesley.

Var. *d. inodora* (Fr.) *d. pulverulenta*, Bieb. Baker, Linn. Proc. xi.

First record, Bloxam, 1874.

4. AVON. A single bush in a field in Cathiron Lane, near Harborough Magna end of lane ! also by the railway crossing in the same lane, in 1875 ! *Blox.* Abundantly in fruit, 1880.
7. STOUR. Lane from Whatcote to Oxhill.
9. ARROW. Hedge, lane from Spennall to Upper Spennall, near the lane leading to Morton Bagot, 1886.
10. CHERWELL. Wormleighton, well marked form.

*R. canina*, Linn.

*Dog Rose.*

Top. Bot. 152. *Purt.* i. 246. Syme, E. B. iii. 215. 226. 472.

Native ; hedges, woods, &c. Common, and generally distributed. S. June-July.

First record, Purton, Midland Flora, 1817.

*a. letetiana* (Leman). Common, and generally distributed.

I have found this in every district throughout the county. A large-fruited form occurs at Ilmington, and Wimpstone Fields.

*b. surculosa* (Woods). Local and rare.

First record, Kirk, Herb. Brit. Museum, 1855 ?

2. BLYTHE. Marston Green ; Coleshill Bog.
3. ANKER. Frequent. Caldecote ; Baddesley Ensor ; Grendon ; Alvecote.
4. AVON. Near Moreton Morrell, *Brom.* Fine form, with subglobose fruit, footway to Bilton Church, Rugby ; Cathiron Lane.
5. LEAM. Itchington Holt ; footway from Birdingbury to Thurlaston ; lane from Offchurch to Dayman's Pool ; lane, Marton to Princethorpe.
6. SOW. Barnes Green, near Coventry, *Kirk, Herb. Brit. Mus.* Near Combe Abbey ; Ansty ; Sow.
7. STOUR. Lower Easington ; Pillerton ; Oxhill ; Ilmington.
8. ALNE. Lane, Aston Cantlow to Billesley ; Wawen's Moor ; near Henley-in-Arden ; Lapworth Street.
9. ARROW. Hedge near the Arrow, Spennall Village.
10. CHERWELL. Farnborough and Warmington.

*c. sphaerica* (Gren.). Rare.

First record, the Author, 1870.

1. TAME. Robust form in the lane to New Park ; Dosthill, in the Kingsbury Road.
8. ALNE. Canal side, near Preston Bagot ; Wootton Wawen ; lane from Wilmcote to Billesley, with long sepals.
9. ARROW. Lane near the Golden Cross, Exhall ; near Alcester.

*d. senticosa* (Ach.). Rare.

First record, the Author, 1870.

2. BLYTHE. Wild Lane, near Knowle; Hay Lane, near Shirley, confirmed by *Dr. Christ.* Spring Coppice, near Tanworth; near Maxstoke Priory.
3. ANKER. Road from Wolvey to Three Pots; Alvecote Lane.
4. AVON. Lane from Alcester Road to Billesley.
5. LEAM. Canal side, near Radford; Long Itchington.
7. STOUR. Hedge, near Ilmington.
8. ALNE. Characteristic bushes, bushy fields, Billesley; lane from Hatton Railway Station to Pinley.
9. ARROW. Footway, Ipsley Meadows to Ipsley; Sambourn; field near Astwood.

*e. dumalis* (Bechst.). Common, and generally distributed.

Occurring in every district. A small-leaved form of this frequent in several districts, Mancetter, &c.

*f. biserrata* (Merat.) Local and rare.

2. BLYTHE. Near Patrick Bridge, Hampton-in-Arden.
3. ANKER. Frequent. Baddesley Ensor; Shuttington; Austrey; Warton; Wolvey.
4. AVON. Oakley Wood, *Brom.* Harborough Magna.
5. LEAM. Stockton; Southam Road, near Harbury; Draycote.
6. SOW. Near Combe Abbey Lodge, Combe Fields.
7. STOUR. Great Wolford; road from Ilmington to Wimpstone Fields.
8. ALNE. Hedges, near Pinley Green; near Grove Park.
9. ARROW. Golden Cross Lane, Exhall, confirmed by *Mr. J. G. Baker.* Banks of the Arrow, near Broom.
10. CHERWELL. Hedges in the Warwick Road from Warmington.

A robust form of *dumalis*, holding the same relationship to this form that var. *sarculosa* does to *lutetiana*, having both the habit and numerous flowers of that variety, occurs occasionally, as at Sawbridge, Southam, Napton, Whichford, Fullready, Avon Dassett, and Lapworth Street. Very abundant at this latter station.

*g. urbica* (Leman). Common, and generally distributed.

A robust form, with numerous flowers and large fruit, near Napton.

Var. *platyphylla* (Rau). Rare.

1. TAME. Over Green, near Wishaw; named by *Dr. Christ.*
2. BLYTHE. Lane from Maxstoke to Coleshill.
5. LEAM. Near Sawbridge.
7. STOUR. Great Wolford; Ilmington.

*h. frondosa* (Steven). Rare.

1. TAME. Hill Hook, near Sutton Coldfield, with remarkably open serratures, leaves slightly hairy beneath, fruit globose; Wishaw.
2. BLYTHE. Near Patrick Bridge, Hampton-in-Arden; Coleshill Heath; Whey-porridge Lane, Solihull.
3. ANKER. Lane from Grendon to Warton; Gully Gap, near Nuneaton.
4. AVON. Near Bishop's Tachbrook, *Brom.*
5. LEAM. Near Southam.
6. SOW. Near Combe Woods.
7. STOUR. Lower Tysoe; Oxhill.

*i. arvensis*, Baker. Local and rare.

1. TAME. Curdworth Bridge, confirmed by *Mr. J. G. Baker*.
  2. BLYTHE. Near Butler's Wood, Maxstoke; Hampton-in-Arden; Baulk Lane, Berkswell; Baker's Lane, near Knowle.
  3. ANKER. Austrey; Shuttington; Glascote; Anker Bridge.
  4. AVON. Harborough Magna! *Blox*. Milverton; Oakley Wood, *Brom*.
  5. LEAM. Lane Binley Common to Willenhall; Draycote and footways to Thurlaston; Sawbridge; Stockton.
  6. SOW. Lane from Tile Hill to Hearsall Common; Crackley; Baginton.
  7. STOUR. Near the turn from Banbury Road to Oxhill; Ilmington.
  8. ALNE. Rowington Green; Drayton Bushes; lane from Yarningle Common to Crab's Cross.
  10. CHERWELL. Wormleighton.
- The plant from Baker's Lane, Knowle, *Dr. Christ* considered to be the *R. concinna* (Puget).

*j. dumetorum* (Thuill.). Local and rare.

1. TAME. Over Whitacre; near Shustoke; lane to New Park; Middleton.
2. BLYTHE. Small-leaved form, Marston Green; Baulk Lane, Berkswell; Baker's Lane, Knowle; Shirley.
3. ANKER. Alvecote; Shuttington; Austrey.
4. AVON. Myton; Chesterton; Hatton! *Brom*. Marl Cliff; near Chester-ton Wood.
5. LEAM. Beyond Cubbington Wood; road to Princethorpe; Wappenbury.
7. STOUR. Between Ilmington and Wimpstone Fields. This may be *R. coriifolia*, which it closely resembles, but it was not advanced enough to decide.
8. ALNE. Shrewley Common; Lapworth Street.
10. CHERWELL. Warminster, on the road for Avon Dassett; near Farnborough.

A form closely allied to *R. pruinosa*, Baker, occurs at Bramcote, near Tamworth.

*k. obtusifolia* (Desv.) Rare.

1. TAME. Doe Bank, Sutton.
2. BLYTHE. Near Patrick Bridge, Hampton-in-Arden, *Bagnall, Herb. Brit. Mus.* Brockhill Lane, Berkswell; lane from Solihull Station to Shirley; lane above Whey-porridge Lane, Solihull; Coleshill, road from Stonebridge.
4. AVON. Hampton-on-the-Hill; Hampton Lucy, *Brom*.
6. SOW. Near Kenilworth, *Dr. R. L. Baker*. See Bot. Exch. Club Rep., 1881. Beausale Common.

*n. tomentella* (Leman). Local and rare.

1. TAME. Sutton Park; Trickle Coppice; Wishaw; Tyburn; Shustoke; Arley Wood.
2. BLYTHE. Solihull; Berkswell; lane from Maxstoke to Fillongley.
3. ANKER. Lane by Bretnall Wood, Ansley, with slightly aciculate peduncles; lane, Nuneaton to Hartshill; Shuttington; Glascote; lane from Alvecote to Spring Coppice.
4. AVON. Myton, *Brom*. Gaydon, *Bolton King*. Harborough Magna; Cathiron Lane, near Harborough Magna.
5. LEAM. Near Birdingbury Wharf; near Offchurch; Southam.

6. SOW. Kenilworth, *Brom.* Binley Common ; near Combe Abbey ; near Coralls Green, Berkswell.
  7. STOUR. Near Whatcote.
  10. CHERWELL. Bridle road, Farnborough to Fenny Compton.
- A variety of this occurs at the north end of Sutton Park, which is referred by Dr. Christ to *R. affinis*, Rau. This also occurs at Solihull ; Cathiron Lane ; Ansty ; Combe Fields ; near Hatton ; Drayton Bushes ; Wormleighton.

*o. andegavensis* (Bast). Local and rare.

1. TAME. Lane, Castle Bromwich to Tyburn.
2. BLYTHE. Whey-porridge Lane, Solihull ; near Butler's Wood, Maxstoke.
3. ANKER. Two bushes near Wolvey, on the road for Shilton ; footway, Wolvey to Anker Mill. A form identical with *R. Acharii*, sent from Vadstena by Winslow, occurs near Burton Hastings and near Wolverhampton.
4. AVON. Myton ! *Brom.*
5. LEAM. Lane from Frankton Wood to Frankton ; near Sawbridge ; near Grandborough.
7. STOUR. In two or three places between Ilmington and Wimpstone Fields.
8. ALNE. Pinley Green, *Brom.* Near Crab's Cross.
9. ARROW. Golden Lane, Exhall, confirmed by Mr. J. G. Baker and Dr. Christ. Hedge, Sperrall, near the lane for Morton Bagot.
10. CHERWELL. Farnborough ; Warmington, on the road to Avon Dassett.

*p. verticillacantha* (Merat). Frequent.

1. TAME. Sutton Park ; near The Cock, Wishaw ; near Curdworth Bridge ; Arley.
2. BLYTHE. Near Stonebridge, on the Coleshill Road, with glandular sepals ; near Sharman's Cross, Solihull.
3. ANKER. Austrey ; road from Mancetter to Oldbury ; Shuttington.
4. AVON. Chesterton Wood ! *Brom.* Harborough Magna ! *Blox.*
5. LEAM. Near Marton ; Princethorpe ; near Southam.
6. SOW. Combe Fields.
7. STOUR. Lane to Great Wolford ; near Wimpstone Fields.
8. ALNE. Lane from Yarningale to Crab's Mill, several bushes ; Shrewley Common ; Lapworth Street ; Hampton-on-the-Hill.
9. ARROW. Sperrall, near the lane leading to Morton Bagot ; Wire Hill ; Cold Comfort, near Alcester.
10. CHERWELL. Bridle road from Farnborough to Warmington ; Priors Marston, with setose calyx tube, *R. aspernata*, Deseg.

sub. var. *latebrosa* (Deseg.). Very rare.

2. BLYTHE. Lane from Sharman's Cross to Solihull. Confirmed by Mr. T. R. A. Briggs. Dr. Christ refers this to *R. micrantha* var. *nuda* = *R. Briggsii*, but, as the styles are decidedly hairy, I think he is mistaken. "*Latebrosa* is noticeable for exhibiting a curious development of setæ and aciculi on certain parts of the stem, recalling the aspect of the least prickly of the *Spinossissima* group. It is worth while noticing here that Woods, in his monograph (*Trans. Linn. Soc.* xii.), attaches considerable importance to the presence or absence of setæ on the stem in discriminating roses, and I think the peculiar armature in the case of *latebrosa* a character sufficiently important to constitute it at least a variety apart from all other forms."—*Flora of Plymouth*, p. 139.

Sub. var. *aspernata* (Deseg.). Very rare.

8. ALNE. Two or three bushes of very marked form of this sub. variety occur near Hill Kitchen Wood, Pinley Green. Mr. Baker, in his monograph of British Roses, mentions this var. as an extreme form of *R. verticillacantha*, with calyx tube prickly as well as the peduncle, and sepals glandular on the back.—*Linn. Journ.*, vol. xi., page 232.

9. *collina*, (Jacq.) = *Koscinciana* (Besser). Very rare.

1. TAME. Lane from Water Orton to Minworth; near the Cock Inn, Wishaw; an intermediate between this form and *R. casia*, Sm., occurs near Curdworth Bridge.
3. ANKER. Footway from Wolvey to Anker Bridge, with glandular sepals and stipules.
6. SOW. Road from Tile Hill to Hearsall Common.

5. *casia* (Sm.). Local and rare.

1. TAME. Over Green, near Wishaw; Water Orton.
2. BLYTHE. Whey-porridge Lane, Solihull.
3. ANKER. Lane from Alvecote to Shuttington.
4. AVON. In several localities near Harborough Magna! *Blox.* Oakley Wood, *Brom.* Cathiron Lane, near Harborough Magna; a robust form, with clustered fruit, lane from Stratford-on-Avon to Loxley.
5. LEAM. Near Snowford Bridge, road to Offchurch; near Sawbridge.
6. SOW. Plant's Hill Wood, Tile Hill.
8. ALNE. Shrewley Heath, near Shrewley Pool.

1. *concinna*, Baker. Very rare.

2. BLYTHE. Baker's Lane, near Knowle; \* Baulk Lane, Berkswell.\*
3. ANKER. Ansley Coalfield; \* near Shilton.
8. ALNE. Drayton Bushes.

\* All these were named by *Dr. Christ.*

11. *decipiens* (Dumt.). Rare.

1. TAME. Doe Bank, Sutton, *Bagnall, Herb. Brit. Mus.*
2. BLYTHE. Baulk Lane, Berkswell.
3. ANKER. Lane from Birch Coppice to Baddesley Ensor, a fine robust form.
4. AVON. Cathiron Lane! Harborough Magna, *Blox.*
6. SOW. Rounsel Lane, Kenilworth! *Brom.* This seems to me to be a mere form of *R. tomentella*.
9. ARROW. Near Exhall; lane from Studley Station to Sambourn; the robust glandular form.

11. *glauca* (Vill.) Rare. = *R. Reuteri*, Godet. Baker, *Linn. Proc.* xi. 233.

1. TAME. Lane from Slowley Hill to Shustoke.
2. BLYTHE. Lane from Sharman's Cross to Solihull, *Bagnall, Herb. Brit. Mus.* Hay Lane, near Solihull; lane from Berkswell Station to Meriden; near Shirley Heath.
3. ANKER. Lane from Hartshill to Mancetter; road from Shilton to Wolvey, and near Wolvey; good characteristic shrubs.
4. AVON. Hampton-on-the-Hill.
5. LEAM. Near Frankton, with glandular sepals.
6. SOW. Beausale Common, near Hatton, *Brom.*
7. STOUR. Hedges near Ilmington.

*w. subcristata*, Baker. Rare.

2. BLYTHE. Monkspath, near the Boxtrees, Hockley; Balsall Street, near Temple Balsall.
3. ANKER. Lane to Bretnall Wood, Ansley; a very fine and well-distinguished shrub.
4. AVON. Old Park, Warwick; hedge at Hatton, with aciculate peduncles! *Brom.* Hampton-on-the-Hill.
5. LEAM. Ufton, *Bolton King*. Near Sawbridge; Fosseroad, near Dayman's Pool.
6. SOW. Allesley! *Bolton King*.
7. STOUR. Lower Tysoe; Oxhill; near Tysoe; Whatcote.
8. ALNE. Canal side, near Preston Bagot; and near Crab's Mill, in the lane from Claverdon.
9. ARROW. Rough Hill, Sambourn; Spennall Ash.
10. CHERWELL. Bridle road, Farnborough to Warmington.

*y. implexa* (Gren.). Rare.

2. BLYTHE. Two bushes in Shelly Lane; lane to Cornets End, Berkswell; Reeves Green.
3. ANKER. Lane from Burton Hastings to Anker Bridge; Mancetter.
7. STOUR. Pillerton, near the turn for Oxhill; Oxhill Fields; lane from Crimscote to Upper Eatington; Pillerton Lodge.
9. ARROW. Upper Spennall.

This form is nearly related to *R. Reuteri*, but has leaves less glaucous beneath, and slightly hairy.

*z. coriifolia* (Fr.) Rare.

1. TAME. Lane from Water Orton to Minworth, *Bagnall*, *Herb. Brit. Mus.* Confirmed by *Mr. J. G. Baker* and *Dr. Christ.* In the Atherstone Road, near Over Whitacre.
3. ANKER. Ansley Coalfield.
4. AVON. Hedge, Hill Wootton, *Brom.*
5. LEAM. Hedge near Offchurch, on the road to Radford Semele.

*a.\* Watsoni*, Baker. Rare.

1. TAME. Ash End, near Middleton; confirmed by *Mr. J. G. Baker*, 1872. Near Middleton Village.
2. BLYTHE. Lane, Berkswell to Cornets End.
3. ANKER. Lane by Bretnall Wood, Ansley; road from Burton Hastings to Anker Bridge.
7. STOUR. Oxhill, on the way to Whatcote.
8. ALNE. Lane by Billesley Hall to Wilmcote.

*d.\* Borreri* (Woods.) Rare.

2. BLYTHE. Lane to Shelly Farm, Shirley; Baulk Lane, Berkswell, *Bagnall*, *Herb. Brit. Mus.* Lane from Berkswell to Tile Hill.
3. ANKER. Lane to Bretnall Wood, Ansley; road from Wolvey to Three Pots; road from Burton Hastings to Anker Bridge.
4. AVON. Woodloes, Warwick, *Brom.*
5. LEAM. Lane from Draycote to Thurlaston.

*e.\* Bakeri* (Déség.). Very rare.

3. ANKER. Near Shilton Village, on the road for Wolvey, two or three bushes.
4. AVON. Old Park, Warwick, *Brom.*, confirmed by *Mr. J. G. Baker*.

*f.\* marginata* (Wallr.) Rare.

2. BLYTHE. Meadow near Blythe Bridge, Solihull, confirmed by *Mr. J. G. Baker*. Shelly Lane.
4. AVON. Chesterton Wood.
5. LEAM. Footroad to Flecknoe.
6. SOW. Lane near Stoke, Coventry.
8. ALNE. Near Baddesley Clinton; Star Lane, near Claverdon.
9. ARROW. Cold Comfort, near Alcester.

Most of the specimens from the stations given above were submitted to *Dr Christ*, who pronounced them to be *R. trackyphylla*, Rau. This species *M. Deseglise* places in his Sect. VIII., *Rubiginosæ*, Tribe i., *Glandulosæ*, with *R. Blondeana*, Riss., and many other varieties. My plants have leaves very glandular on the petioles and on the veins of the under surface of the leaves.

### *R. systyla*, Bast.

Syme, E. B. iii. 230. 475.

Native; hedges and woods. Very rare. S. June-July.

First record, the Author, 1883.

4. AVON. In a hedge near Drayton Farm, near Stratford-on-Avon, August, 1883.
8. ALNE. Canal cutting, near Rowington; a form near the var. *evanida*, *Dr. Christ*, from Kew Common.

*R. stylosa* var. *pseudo-rusticana*, Crép. Very rare.

5. LEAM. Near Snowford Bridge, on the road to Offchurch. A fine series of specimens of this recent addition to our flora, from the Rev. W. Moyle Rogers, has enabled me to identify this plant, which is a striking variety.

*f. gallicoides*, Baker. Very rare.

Top. Bot. 152.

4. AVON. Chesterton Wood! *Brom.*, *Linn. Proc.* xi. 240.

### *R. arvensis*, Huds.

*Field Rose.*

Top. Bot. 153. *Purt.* i. 247. Syme, E. B. iii. 231. 476.

Native; hedges, waysides, and heaths. Common, and generally distributed throughout the county. S. June-July.

First record, the Author, 1869, Sutton Park.

A form with small globose fruit occurs at Spennall Ash, fruit scarcely larger than haws; a form with erect subsistent sepals and large globose fruit by Cubington Wood; a form with double serratures, similar to Rev. W. P. Linton's Shirley plant, *Bot. Exch. Club Rep.*, 1887, occurs at Gully Gap, near Nuneaton.

*b. bibracteata*, Bast. Local and rare.

2. BLYTHE. Near Bannersley Pool, Coleshill; lane from Solihull Station to Shirley.
3. ANKER. Lane from Gully Gap to Stockingford.
4. AVON. Near Harborough Magna, *Blox.* Loxley, near Stratford-on-Avon; Cathiron Lane, near Harborough Magna.
5. LEAM. Offchurch Heath; near Princethorpe.
6. SOW. Plentiful near Ansty, below the canal; Baginton.
7. STOUR. Lane from Crimsote to Upper Easington; Whichford Wood.

8. ALNE. Lane by Maise Wood, Henley-in-Arden.

9. ARROW. Hedge near River Arrow, Sperrall.

Var. *setosa*, Mihi. Very rare.

4. AVON. Borders of Chesterton Wood. This is a glandular form or variety of the type bearing the same relationship to *R. arvensis* that *R. gallioides* does to *R. stylosa*.

### PYRUS. Linn.

#### **P. torminalis**, Ehrh.

*Wild Service Tree.*

Top. Bot. 158. Purt. i. 235. Syme, E. B. iii. 241. 481.

Native; hedges. Rare. T. May to July.

First record, Purton, Midland Flora, 1817. *Crataegus torminalis*, L.

2. BLYTHE. Temple Balsall, *Brom*. Two or three trees in the footroad from Olton to Elmdon.

3. ANKER. Hartshill Wood.

4. AVON. Brandon Wood, *Cumming*.

8. ALNE. Roadside between Langley and Kington, in the parish of Claverdon, *Perry, MS.*, 1825. Claverdon, *Bree, Mag. Nat. Hist.* iii. 164. Great Alne.

9. ARROW. On the footway to Mr. Petford's, Alcester Park, *Purt.* i. 236. Oversley Wood.

#### **P. Aria**, Sm.

*Common Whitebeam.*

Syme, E. B. iii. 243. 482.

Native? or denizen; hedges and woods. Rare. T. June.

First record, Baxter, date unknown.

1. TAME. Sutton Park; quite established in some of the woods.

2. BLYTHE. Marston Green.

3. ANKER. Coppice, Weddington, probably planted.

4. AVON. Above Coton House, Rugby, *Baxter, MS.*

5. LEAM. Bascote Heath; Ufton Wood.

6. SOW. Allesley; railway bank, near Coundon.

7. STOUR. Near Wolford Wood.

9. ARROW. Ipsley! *T. J. Slatter*. It does not flower here, but appears to be established.

Probably planted in every locality from which it is here recorded.

*b. hybrida*, Linn.

8. ALNE. A fine tree in the lane from Billesley to Red Hill, in good flower and fruit, 1873. I think an introduced plant here.

#### **P. Aucuparia**, Gaert.

*Mountain Ash.*

Top. Bot. 160. (*Sorbus*.) Purt. iii. 361. Syme, E. B. iii. 248. 486.

Native; woods, hedges. Local and rare. T. May-June.

First record, Bree in Midland Flora, 1821, note.

1. TAME. Frequent in Sutton Park, springing up abundantly in the woods; New Park; Trickle Coppice; Kingsbury.

2. BLYTHE. Woods, Solihull ; Shirley ; Earlswood.
3. ANKER. Hartshill Hayes ; Parley Park, near Atherstone.
4. AVON. Hatton, *Y. and B.*
5. LEAM. Wood near Marton Railway Station.
6. SOW. Allesley, *Bree in Purt.* iii. 361. Corley ; Combe Woods.
7. STOUR. Honington ; probably planted.
8. ALNE. Haywood, *Y. and B.* Preston Bagot.
9. ARROW. Oversley Wood ; Coughton Park.

**P. communis, Linn.***Wild Pear.*

*Purt.* i. 237. Syme, E. B. iii. 251. 488.  
Denizen ; woods and hedges. Local and rare. T. April-May.  
First record, Purton, Midland Flora, 1817.

*a. Pyraister, Linn.*

4. AVON. Hampton-on-the-Hill, *Per. Fl.* 43. Whitnash Pastures, *Brom., Herb. Brit. Mus.* Tachbrook, *Y. and B.* Sandy Hill between Leamington and Kenilworth, *Perry, MS.* Warwick Old Park ; near Pillerton.
5. LEAM. Near Cubbington, *Baynes, MS.* Bascote Heath.
6. SOW. Stivichall, near Arbury, *Kirk, Phyt.* ii. 990.
7. STOUR. Banbury Road, near the turn for Oxhill ; near Whatcote.
8. ALNE. Great Alne ! Kinwarton ! *Purt.* i. 237. Drayton Rough Moors ; Pinley ; Trap's Green.
9. ARROW. Arrow ; Alcester ; Alcester Heath ; lane from Iron Cross to Dunnington ; fields near Sambourn ; Spernal Ash.
10. CHERWELL. Upton ; Edge Hill.

*b. Achras (Gaert). Very rare.*

5. LEAM. Bascote Heath.
7. STOUR. Whatcote.
8. ALNE. Near Drayton, in the Alcester Road.

**P. Malus, Linn.***Crab Apple or Wild Apple*

*Top. Bot.* 158. *Purt.* i. 237. Syme, E. B. iii. 255. 489.  
Native ; woods and hedges. Local. T. April-May.  
First record, Perry List, 1817.

*a. acerba (DC.). Frequent.*

1. TAME. Sutton Park ; Middleton ; Kingsbury, &c.
2. BLYTHE. Solihull ; Knowle ; Earlswood, &c.
3. ANKER. Mancetter ; Austrey ; Seckington, &c.
4. AVON. Emscote Bridge, *Perry List*, 1817. Oakley ; Bidford ; near Kineton Farm, Little Kineton ; Stratford Heath.
5. LEAM. Gaydon, rare, *Bolton King.* Bascote Heath ; Upton.
6. SOW. Allesley ; Corley.
7. STOUR. Honington, *Newb.* Whatcote.
8. ALNE. Pinley ; Preston Bagot.
9. ARROW. Spernal ; Studley.
10. CHERWELL. Shotswell ; Avon Dassett ; Upton.

*b. mitis, Wallr. Rare. Syme, E. B. iii. 256. 490.*

1. TAME. Near Arley Village.
3. ANKER. Near Warton ; Newton Regis ; Bulkington.

4. AVON. Near Rugby, *Rugby Sch. Rep.*, 1868.
5. LEAM. Bascote Heath; not unfrequent between Bascote Heath and Southam.
6. SOW. Beausale Common, *Y. and B.*
7. STOUR. Whatcote.
8. ALNE. Lapworth Street, near High Chimneys.

CRATÆGUS. *Linn.***C. Oxyacantha**, *Linn.* *Hawthorn.*

Top. Bot. 157. Purt. i. 235. Syme, E. B. iii. 236. 479.  
Native; hedges, woods, and heathlands. Common. T. May-June.  
First record, Baxter, MS., 1831.

*a. oxyacanthoides* (Thuill). Local and rare.

2. BLYTHE. Near Solihull; hedges near Packwood House.
3. ANKER. Bulkington; Seckington; Newton Regis; Weddington.
4. AVON. Field between Brownsover and Coton House, *Baxter, MS.*, 1831.  
Chesterton Wood! *Brom.* Old Park, Warwick, *Y. and B.* Pillerton;  
Wellesbourn.
5. LEAM. Ufton Wood; Bascote Heath.
6. SOW. Near Astley.
7. STOUR. Great Wolford; Ilmington; Wimpstone Fields; Barton-on-the-Heath.
8. ALNE. Shrewley Common; Lapworth Street; Great Alne; Claverdon;  
Dilkes Lane.
9. ARROW. Arrow Lane; Sambourn; Spennall; Ipsley.
10. CHERWELL. Farnborough; Avon Dassett.

*d. monogyna* (Jacq.) Common and generally distributed.

Forms with laciniated leaves occasional with the typical form.

## ORD. XXV. SAXIFRAGÆ.

SAXIFRAGA. *Linn.***S. tridaetylites**, *Linn.* *Rue-leaved Saxifrage.*

Top. Bot. 181. Purt. i. 206. Syme, E. B. iv. 74. 552.  
Native; walls, roofs, &c. Local. A. April to June.  
First record, Perry List, 1817, unlocalised.

1. TAME. Erdington; Sutton; Middleton; Wishaw; Arley; Whitacre;  
Kingsbury.
2. BLYTHE. Coleshill; Fillongley; Meriden; Hampton-in-Arden.
3. ANKER. Nuneaton; Hartshill; Polesworth.
4. AVON. Walls near Newbold-on-Avon, and at Moreton, *Rugby Sch. Rep.*,  
1877. Salford! *Caswell.* Warwick, *Perry, MS.* Lighthorne, *Miss  
Palmer.* Ashorne; Harborough Magna.
5. LEAM. Harbury! *Y. and B.* Ufton.
6. SOW. Near Coventry; Allesley; Corley.
7. STOUR. Brailles! Honington! Shipston! *Newb.* Tysoe! Compton Wyn-  
yates, *Gorle.* Ilmington; Barton-on-the-Heath; Cherrington; Long  
Compton.

8. ALNE. Bushwood, Lapworth ; Henley-in-Arden ; Wootton Wawen ; Bad-desley Clinton.  
 9. ARROW. Studley.  
 10. CHERWELL. Farnborough ; Warmington.

**S. granulata, Linn.** *Meadow Saxifrage.*

Top. Bot. 180. Purt. i. 206. Syme, E. B. iv. 77. 555.  
 Native ; banks, meadows, and pastures. Local. P. May-June.  
 First record, Withering's Arrangement, 1801.

1. TAME. In the Garlick Meadows, Penn's Mill, *With.*, Ed. 4. ii. 396. Sutton Park ; near Moor Hall ; New Park, Middleton ; Minworth ; near Aston Park ; Curdworth.
2. BLYTHE. Meriden ; Hampton-in-Arden ; Copt Heath ; Elmdon ; Hill Bickenhill ; Forge Mills.
3. ANKER. Parley Park, near Atherstone ; Newton Regis ; Burton Moors, near Burton Hastings.
4. AVON. About Rugby, *Baxter, MS.* Between Leamington and Warwick ; Pigwell Quarry, Warwick ; roadside at Guy's Cliff, *Per. Fl.* 39. Bilton, *Rugby Sch. Rep.*, 1877. Stratford-on-Avon ; Edge Hill.
5. LEAM. By the roadside, opposite Princethorpe Wood, *Rugby Sch. Rep.*, 1880.
6. SOW. Allesley ; Kenilworth ; Corley.
7. STOUR. Honington, *Newb. Tysoe, Gorle.*
8. ALNE. Claverdon, *Miss Palmer.* Brookhouse Farm Lane, Bushwood.
9. ARROW. Alcester.
10. CHERWELL. Warmington, *Bolton King.*

**CHRYOSPLENIUM. Linn.**

**C. oppositifolium, Linn.** *Golden Saxifrage.*

Top. Bot. 183. Purt. i. 210. Syme, E. B. iv. 84. 563.  
 Native ; marshes, swamps, damp woods, &c. Locally abundant. P. April-May.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Erdington ; Sutton Park ; Plant's Brook ; lanes about Arley ; lane from Water's Wood, Shustoke, to Fillongley.
2. BLYTHE. Marston Green.
3. ANKER. Hartshill Hayes ; lane by Oldbury Reservoir.
4. AVON. Under dripping rocks on the side of the Avon, Milverton, *Perry, MS.* Dripping well, Milverton ! *Brom.* Near Leek Wootton, *Per. Fl.* 38. About Rugby, *Baxter, MS.*
6. SOW. Crackley Wood, near Kenilworth ! *Per. Fl.* 38. Honiley Brook, *Y. and B.* Allesley ! Coventry, *Bolton King.*
7. STOUR. Whichford and Long Compton Woods.
8. ALNE. Great Alne, *Purt. i.* 210.
9. ARROW. Sambourn, *Purt. i.* 210. Moorland by Banum's Wood, Morton Bagot.

**C. alternifolium, Linn.** *Golden Saxifrage.*

Top. Bot. 183. Purt. i. 210. Syme, E. B. iv. 85. 564.  
 Native ; marshes, swamps, damp woods, &c. Rather rare. P. May-June.  
 First record, Bree in Midland Flora, 1817.

1. TAME. Sutton Pool ! *Ich*, 1838. Plant's Brook ; Minworth.
2. BLYTHE. Balsall Temple, *Bree in Purt.* i. 211. Marston Green ; Elmdon.
4. AVON. Woods at Stoneleigh, 1832 (*Salisbury*) *Perry, MS.*
6. SOW. Crackley Wood ! *Per. Fl.* 38. Honiley Brook ; meadows, Rounsel Lane, Kenilworth ! *Brom.*
7. STOUR. Whichford Wood.

**PARNASSIA.** *Linn.*

**P. palustris,** *Linn.* *Grass of Parnassus.*

Top. Bot. 184. *Purt.* i. 163. Syme, E. B. iv. 86. 565.  
Native ; bogs and marshy ground. Rare. P. July to September.  
First record, Withering's Arrangement, 1812.

1. TAME. In meadows at Penn's Mill near Erdington, *With. Ed.* 5. p. 465. Sutton Park ! *Freeman, Phyt.* i. 262. Abundant in Sutton Park, 1885.
2. BLYTHE. Coleshill Bog ! and Knowle ! *Purt.* i. 163. Near Stonebridge, in meadows between Bradnock's Marsh and Berkswell, *Per. Fl.* 27. Between Olton and Elmdon, *Gorle.* Copse near Elmdon, *Cameron, Phyt.* i. 556.
4. AVON. Boggy meadows near Warwick, *Bree in Purt.* iii. 350.
6. SOW. Norbrook and near Fern Hill, *Perry List*, 1817. Rounsel Lane, Kenilworth, *Brom.*

**RIBES.** *Linn.*

\**R. Grossularia,* *Linn.* *Gooseberry.*

*Purt.* ii. 730. Syme, E. B. iv. 38. 518.  
Denizen ; hedges, woods. Rare. Shrub. April.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park, escape ; Water Orton ; in a hedge near Hoare Park, near Nether Whitacre.
2. BLYTHE. In a wood near Olton, *Grove.* Lanes near Marston Green ; land near Packwood Windmill.
4. AVON. On the stump of a willow by the side of the River Avon, Warwick, *Per. Fl.* 23. On the buttress of a bridge at Stoneleigh, *Baynes, MS.* Between Rugby and Dunchurch ; between Rugby and Clifton, *Baxter, MS.* Apparently wild, growing on the carriage road to Brownsover ; near Bilton, *Rugby Sch. Rep.*, 1876. Lighthorne, *Miss Palmer.* Near Ryton-on-Dunsmore.
5. LEAM. On a willow stump near Birdingbury, *Baynes, MS.*
8. ALNE. Near Pinley Green.
9. ARROW. Oversley Wood and in hedges at a distance from any house, *Purt.* ii. 730. Salford Bridge, *Caswell.*

\**R. alpinum,* *Linn.* *Mountain Currant.*

Top. Bot. ? 174. Syme, E. B. iv. 40. 519.  
Denizen ; woods. Very rare.  
First record, Withering's Bot. Arrangement, 1801.

1. TAME. In a wood on the S.W. side of a pool at Edgbaston, *With. Ed.* 4. ii. 260. Recorded from the same place by *Freeman*, 1841, in *Phyt.* . 261.

**R. rubrum, Linn.** *Red Currant.*

Purt. iii. 19. Syme, E. B. iv. 41. 520.

Denizen; woods and river banks. Rare. S. May-June.

First record, Perry, *Plantæ Selectæ*, 1820.

2. BLYTHE. A single bush in a hedge near Solihull, probably only an outcast.

3. ANKER. Coventry Wood, Arbury Hall, *Kirk, Phyt.* ii. 970.4. AVON. On the banks of the Avon, near Warwick, *Bree in Purt.* iii. 19. Side of the Avon between Emscote and Warwick, *Per Fl.* 22. Near Stoneleigh Mill, *Baynes, MS.* Old Park and Avon, near Guy's Cliff, *Brom.* In hedges between Newbold-on-Avon and Rugby, *Baxter, Salford, Caswell.* Between Newbold and Harborough, *Rugby Sch. Rep.*, 1876.5. LEAM. Offchurch, *Brom.*

10. CHERWELL. Near Ratley, Edge Hill.

**\*R. nigrum, Linn.** *Black Currant.*

Purt. iii. 20. Syme, E. B. iv. 45. 523.

Alien; damp woods, hedges, river banks. Rare. S. May.

First record, Ray, *Syn.*, 1724. *Ribes nigrum vulgo dictum folio olente*, J. B.1. TAME. We observed it also in Warwickshire, *Ray, Syn. Ed.* 3. 456.3. ANKER. In a boggy spinney called "The Alders," Arbury Deer Park, *Kirk, Phyt.* ii. 970.6. SOW. Banks of the Sherborne (near Coventry), *T. Kirk, Herb. Brit. Mus.*7. STOUR. Honington, *Newb.*9. ARROW. On the banks of the Arrow in the hamlet of Oversley, *Purt.* iii. 20. Ragley Wood.

## ORD. XXVI. CRASSULACEÆ.

**SEDUM. Linn.****S. Telephium, Linn.** *Live Long, or Orpine.*

Top. Bot. 175. Purt. i. 218. Syme, E. B. iv. 49. 526.

Native; woods. Rare. P. July.

First record, Purton, *Midland Flora*, 1817.2. BLYTHE. Knowle, *G. Crofts.*4. AVON. Red Hill, *Perry, MS.* Chesterton Wood, abundant, but not observed in flower.5. LEAM. Ufton Wood, *Mr. Fryer.*6. SOW. Woods, Allesley, *Bree, Mag. Nat. Hist.* iii. 164.

7. STOUR. On a wall near Halford (an escape).

8. ALNE. Alne Hills, *Purt.* i. 218.**\*S. album, Linn.** *White Stone-crop.*

Syme, E. B. iv. 52. 529.

Alien; walls, roofs, and quarries, in calcareous soils. Rare. P. June-July.

First record, Kirk, *Phytologist*, 1842.

2. BLYTHE. Roof at Berkswell, *Brom.*
  4. AVON. Lighthorne, *Y. and B.* Quarry at Edge Hill ; old walls, Binton.
  6. SOW. On a wall at the back of Little Park Street, Coventry, *Kirk, Phyt.* ii. 970.
  7. STOUR. Old walls, Tysoe, and Brailes.
  8. ALNE. Roof of a cottage at Lapworth ; old walls about Temple Grafton.
- I cannot regard this as being even naturalised in Warwickshire ; in all cases merely an escape.

**S. acre, Linn.** *Biting Stone Crop. Wall Pepper.*

Top. Bot. 177. *Purt.* i. 218. Syme, E. B. iv. 55. 532.

Native ; walls and thatched roofs. Local. P. June.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Walls at Meriden ; walls and roofs, Coleshill.
3. ANKER. Old walls, Nuneaton Abbey ; Hartshill Priory.
4. AVON. About Warwick, very common, *Per. Fl.* 41. Salford ! *Carwell.* Walls and roofs, Binton.
7. STOUR. Old walls, Oxhill ; Brailes ; and Tysoe ; Great Wolford ; Whichford.
8. ALNE. On walls and roofs, Temple Grafton ; roofs, Claverdon.
9. ARROW. Walls, at Wixford ! *Purt.* i. 218.
10. CHERWELL. Old walls, Farnborough ; Prior's Marston.

[\*\**S. sexangulare*, Linn. Recorded from walls at Whitacre and Binton ; merely an escape.]

*\*S. reflexum*, L. Var. *b. albescens*, Haw.

*Purt.* i. 218. Syme, E. B. iv. 58. 535.

Denizen ; walls, roofs, and old ruins. Local and rare. P. July-August.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Maxstoke Priory Ruins ! *J. B. Stone*, 1889. Evidently self-set.
3. ANKER. Old walls, Nuneaton Abbey ; Hartshill Priory.
4. AVON. On a wall at Salford ! *Purt.* i. 218. Walls about Warwick ! Bidford ! &c., *Per. Fl.* 41. On a wall at Woodcote (near Warwick), *Baynes, MS.* Old walls at Bilton ; Clifton ; Hill Morton, *Rugby Sch. Rep.*, 1876.
5. LEAM. On a house at Cubbington, 1832, *Baynes, MS.* Harbury, *Miss Palmer.* Old walls near Napton-on-the-Hill, abundant.
6. SOW. Kenilworth ! *Brom.*
7. STOUR. Idlicote, *Newb.* Great Wolford ; old walls, Brailes.
8. ALNE. Banks, near Wootton Wawen.
9. ARROW. Alcester, *Purt.* i. 218. Oversley Mill.

Both the type and var. *b.* occur in the county.

**COTYLEDON. Linn.**

**C. umbilicus, Linn.** *Navel Wort.*

Top. Bot. 178. *Purt.* i. 225. Syme, E. B. iv. 62. 539.

Native ; old walls and ruins. Very rare. P. June-July.

First record, Perry List, 1817.

112 COTYLEDON.—DROSERÆ.—HIPURIS.—MYRIOPHYLLUM.

2. BLYTHE. Maxstoke Priory ! *Bree in Purt.* i. 225. Coleshill, rare, *Bree*, *N. B. G.* iii. 183. Maxstoke churchyard walls, abundant in 1869.
3. ANKER. Walls of Hartshill Priory.
4. AVON. On the walls of the area, Guy's Cliff House !; in the old Pound, Coton End, Warwick, *Perry*, 1817.

\**Sempervivum tectorum*, Linn.

Alien ; on roofs and walls, usually planted. Local. Rarely flowering. P. July.

Noticed at Lighthorne, *Miss Palmer*. Roofs of houses, butchers' shambles, Rugby, *Baxter*, *MS.* Whitacre ; Hartshill Priory ; Austrey ; old walls, Warwick ; Honington ; Tysoe ; near Coventry ; Stratford-on-Avon.

ORD. XXVII. DROSERACEÆ.

DROSERÆ. Linn.

*D. rotundifolia*, Linn. *Sundew.*

Top. Bot. 59. *Purt.* i. 166. Syme, *E. B.* ii. 30. 182.  
Native ; marshes and bogs. Very rare. P. July-August.  
First record, Withering's Arrangement, 1787.

1. TAME. Birmingham Heath, *With. Ed.* 2. ii. 331. Sutton Park, *Freeman*, *Phyt.* i. 262. Formerly abundant in Sutton Park, but now very rare.
2. BLYTHE. Coleshill Pool ! and Bog ! *Purt.* i. 166. Coleshill Heath, *Bree*, *Mag. Nat. Hist.* iii. 165. Bog near Little Packington.
6. SOW. Haseley Common, *Baynes*, *MS.*

ORD. XXVIII. HALORAGEÆ.

HIPURIS. Linn.

*H. vulgaris*, Linn. *Mare's Tail.*

Top. Bot. 166. Syme, *E. B.* iv. 33. 516.  
Native ; pools. Very rare. P. June-July.  
First record, *Herb. Perry*, 1835.

3. ANKER. Tamworth, *Herb. Per.*, 1835.
4. AVON. Compton Verney, *Brom.*, *Herb. Per.* Chesterton Mill Pool, 1872.
5. LEAM. Near Thorpe Bridge, Southam, 1886.
6. SOW. Pool at Combe Abbey, very abundant, *Prof. Hillhouse*, 1886.
10. CHERWELL. Farnborough Pool, 1884-6. Wormleighton Reservoir.

MYRIOPHYLLUM. Linn.

*M. verticillatum*, Linn. *Water Milfoil.*

Top. Bot. 167. Syme, *E. B.* iv. 31. 513.  
Native ; pools and ditches. Rare. P. July-August.  
First record, the Countess of Aylesford, *Bot. Guide*, 1805.

2. BLYTHE. Packington, *Aylesford Bot. Guide*, 636.
4. AVON. Ditches near Blakedown Mill, 1831, *Baynes, MS.* Brownsover, *Y. and B.* Guy's Cliff Mill, *Brom.* Ditch, near Newbold-on-Avon, *Baxter, MS.*
5. LEAM. Marsh near Birdingbury Wharf, 1880.
6. SOW. Wyken Rumps, *Kirk, Herb. Per.* Ansty Canal, *Adams.* Sow Waste Canal, var. *pectinatum, DC.*
8. ALNE. Shrewley Pool, *Y. and B.*

**M. spleatum, Linn.**

Top. Bot. 168. *Purt.* ii. 459. *Syme, E. B.* iv. 32. 514.  
Native; pools, streams, canals. Local and rare. *P. July.*  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Hill Hook, near Sutton Coldfield.
2. BLYTHE. Coleshill Pool; pool in Maxstoke Park; Mercote Pool near Berkswell; River Blythe, near Stonebridge.
4. AVON. Between Milverton and the Sand Rock, 1832, *Perry, MS.* Chester-ton Pool, *Y. and B.* Canal, Warwick! Compton Verney, *Brom.*, Pond beyond Little Lawford and near Brandon, *Rugby Sch. Rep.*, 1886. Canal, near Stratford-on-Avon.
5. LEAM. Napton Hills, *Kirk, Herb. Per.* Small pool near Birdingbury Wharf.
6. SOW. Sow Waste Canal.
7. STOUR. In the Stour below Tredington (not gathered), *Newb.*
9. ARROW. Black Pool between Sperrall and Studley Church; in a pool at Sambourn, *Purt.* ii. 459.
10. CHERWELL. Small pool and canal near Farnborough.

**M. alterniflorum, DC.**

Top. Bot. 168. *Syme, E. B.* iv. 32. 515.  
Native; rivers, streams, pools, canals. Local and rare. *P. July-August.*  
First record, Baynes, *MS.*, 1831.

1. TAME. Sutton Park; Hill Hook; Whitacre Reservoir.
2. BLYTHE. Coleshill Pool; River Blythe, near Stonebridge; Mercote Pool; Earlswood Reservoir; pool at Temple Balsall.
3. ANKER. Oldbury Reservoir; Rye Hills, near Tamworth; near Seckington.
4. AVON. Blakedown Mill Pool, 1831, *Baynes, MS.* Chesterton Mill Pool, *Brom.* Compton Verney, *Satchel, Herb. Per.*
5. LEAM. Pit near Birdingbury Wharf.
6. SOW. Allesley, *Brom. Herb. Per.* Combe Woods; Sow Waste Canal.
7. STOUR. Pit on heathy land, Great Wolford Heath.
8. ALNE. Shrewley Pool, *Brom.* Pool at Wootton Wawen; stream near Bearley Cross.
10. CHERWELL. Small pool, bridle road to Farnborough.

**CALLITRICHE, Linn.****C. vernalis, Koch.** *Water Starwort.*

Ambiguity; pools and streams. Rare. May to July.

This is recorded from the Woodloes, Warwick, by *Bromwich*, and from Honington by the *Rev. W. W. Newbould*. I have not yet found it in any Warwickshire station. What appears to be nearly allied to this, in a small pool, Little Wolford Heath.

**C. stagnalis, Scop.**

Top. Bot. 169. Syme, E. B. viii. 119. 1272.

Native; pools, streams, canals, damp sandy or clayey drives in woods, and on mud. Common. P. May to July.

First record, Kirk, Phytologist, 1845.

Two forms are common in the county: (1) a small form, growing in mud or in damp, clayey, or sandy drives in woods, always abundantly in fruit; (2) a larger and more robust form, with elongate stems, growing in streams or pools, but I am convinced that neither form is constant, that the mud form would assume the characters of the submersed form if it were submersed, and *vice versa*. I have found one or other of these forms abundantly represented in every district in Warwickshire.

**C. hamulata, Kuetz.**

Top. Bot. 169. Syme, E. B. viii. 120. 1273.

Native; pools and streams. Local and rare. P. June to August.

First record, Kirk, Phytologist, 1845.

1. TAME. Witton; Sutton Park; lane from Water Orton to Minworth; stream by Curdworth Bridge; near Whitacre (var. *pedunculata*); Arley Wood; Shawberries Wood; Butler's Wood, Maxstoke; Kingsbury.
2. BLYTHE. Forshaw Heath; Little Dickens, Earlswood; near Blythe Bridge; pool by Close Wood, Kenwalsey.
3. ANKER. Stagnant waters in Arbury Deer Park, *Kirk, Phyt.* ii. 970; Old-bury Reservoir; Shuttington; in road from Alvecote to Seckington.
4. AVON. Stream near Kineton.
5. LEAM. Canal near Birdingbury.
6. SOW. Haseley, *Brom.* Pool, Tile Hill; Sow Waste Canal.
7. STOUR. Pool, Barton-on-the-Heath.
8. ALNE. Yarningale Common.
9. ARROW. Coughton Mill.
10. CHERWELL. Cattle pool, near Compton Windmill.

This is probably the *C. autumnalis* of Purton's Midland Flora, page 49.

**C. obtusangula, Le Gall.**

Top. Bot. 169.

Native; pools and streams. Local and rare. P. May to July.

First record, the Author, 1882.

1. TAME. Sutton Park, abundant in several streams.
2. BLYTHE. Hampton-in-Arden; stream near Brown's Wood, Solihull; near Earlswood.
3. ANKER. Rye Hills, near Tamworth; Anker Bridge, near Wolvey; Baxterley Heath, near Atherstone.
4. AVON. Chesterton Pool! *Brom.* Pool near Chadshunt; Moreton Morrell.
5. LEAM. Cattle pool, Itchington Holt; stream in fields, footway from Thurlaston to Draycote, abundantly; pool at Birdingbury.
6. SOW. Small pool, near Bedworth. A singular form, probably var. *Lachii*, Warren.
7. STOUR. Gorsy land near Great Wolford.
8. ALNE. Stream near Lowson Ford; stream, Aston Cantlow Village.
10. CHERWELL. Pool near Farnborough.

## ORD. XXIX. LYTHRARIÆ.

LYTHRUM. *Linn.***L. Salicaria**, *Linn.**Purple Loosestrife.*Top. Bot. 171. *Purt.* i. 226. *Syme*, E. B. iv. 2. 491.Native; rivers, streams, and pools. Locally abundant. *P.* July to September. First record, *Perry List*, 1817.

1. TAME. Sutton Park; Middleton Park; Curdworth Bridge, &c.
2. BLYTHE. Stonebridge; Knowle; Earlswood; Forge Mills; Packington.
3. ANKER. River Anker in many places; canals about Atherstone; Burton Hastings; Grendon, &c.
4. AVON. Emscote Bridge, *Perry List*, 1817. Salford Priors! *Caswell*. Stratford Canal.
5. LEAM. By the Leam, *Y. and B.* In canals and waters, not infrequent in this basin.
6. SOW. Sow Waste.
7. STOUR. Honington, *Newb.* Abundant in the River Stour, as at Halford; Shipston-on-Stour; Whichford Wood.
8. ALNE. Canal, near Preston Bagot.
9. ARROW. Near Spennall and Studley.
10. CHERWELL. Pool near Farnborough.

[\*\**L. Hyssopifolia*, *Linn.* A casual weed in the kitchen garden, Myton House (*Cross*).]

PEPLIS. *Linn.***P. Portula**, *Linn.**Water Purslane*Top. Bot. 172. *Purt.* i. 181. *Syme*, E. B. iv. 4. 493.Native; pools, damp woods, heathlands. Local. *P.* July to September. First record, *Purton*, *Midland Flora*, 1817.

1. TAME. Sutton Park! *Freeman*, *Phyt.* i. 261. Rare in this district.
2. BLYTHE. Coleshill Pool! *Purt.* i. 182. Near Chelmsley Wood; sand quarry, Cornets End; sand quarry, Stonebridge; drive, by Chalcote Wood, near Umberslade; Earlswood Reservoir; Forshaw Heath.
3. ANKER. Hartshill Hayes; Bentley Park.
4. AVON. On the road to Barby, in great abundance; Hill Morton, 1831, *Baxter*, *MS.* Alveston Pastures, near Stratford-on-Avon.
5. LEAM. Frankton Wood! *Rugby Sch. Rep.*, 1867.
6. SOW. Kenilworth! *Brom.* Combe Woods.
7. STOUR. Heathy land by Great Wolford Wood, 1886.
8. ALNE. Shrewley Pool, *Dr. Lloyd*, 1836. Lye Green, near Claverdon *Y. and B.* Haywoods; Chalcote Wood.
9. ARROW. At the top of Spennall Lane, *Purt.* i. 182. Oversley Wood.

## ORD. XXX. ONAGRARIÆ.

EPILOBIUM. *Linn.***E. angustifolium**, *Linn.**Wild French Willow. Rose-Bay.*Top. Bot. 160. *Syme*, E. B. iv. 8. 495.Native? woods, coppices, and banks. Rare. *P.* July to September. First record, *Bree*, *Mag. Nat. Hist.*, 1830.

2. BLYTHE. Hedge bank, Balsall Common, *Brom.* Fen End, *Grove.* Railway bank, near Berkswell.
3. ANKER. In Hartshill Park Wood, *Crossfield, Perry, MS.*
4. AVON. Near Coton House (Rugby), *Herb. Per.* Lower Hill Morton, *Rugby Sch. Rep.*, 1868. Chesterton Wood; Burton Dassett, *Bolton King.* Brandon Wood, *Rugby Sch. Rep.*, 1889. Coppice on Edge Hill, 1877, abundant; railway bank, near Binton.
5. LEAM. Ryton Wood (near Cubbington), *Bree, Mag. Nat. Hist.* iii. 164. Frankton, *Rugby Sch. Rep.*, 1868.
6. SOW. Near Coventry, *Herb. Per.* By the side of the L. and N.W. Railway, near Whitley Common, *Kirk, Phyt.* ii. 990. Fern Hill Wood! *Brom.* Crackley Wood near Kenilworth, plentiful.

*b. brachycarpum* (Leight).

Syme, E. B. iv. 8. 496.

1. TAME. Sutton Park, *Caswell.*
2. BLYTHE. Near Mawkin's Hall; Balsall Common.

**E. hirsutum, Linn.** *Great Hairy Willow Herb.*

Top. Bot. 161. *Purt.* i. 191. Syme, E. B. iv. 10. 497.

Native; rivers, streams, and ditches. Common, and generally distributed. P. July to September.

First record, Rugby School Report, 1868, near Rugby.

**E. parviflorum, Schreb.** *Hairy Willow Herb.*

Top. Bot. 161. *Purt.* i. 192. Syme, E. B. iv. 11. 498.

Native; damp woods, pools, streams. Common. P. July to September.

First record, the Author, Flora of Sutton Park, 1876.

1. TAME. Sutton Park; Middleton Heath; Water Orton.
2. BLYTHE. Coleshill Pool; Solihull; Earlswood.
3. ANKER. Shuttington; Seckington; Wolvey.
4. AVON. Chesterton; Warwick; Stoneleigh; Alveston.
5. LEAM. Draycote; Birdingbury; Frankton.
6. SOW. Sow Waste; Kenilworth; Tile Hill.
7. STOUR. Honington; Shipston, *Newb.* Brailes; Tysoe; Oxhill.
8. ALNE. Preston Bagot; Henley-in-Arden.
9. ARROW. Coughton; Sperrall; Morton Bagot.
10. CHERWELL. Farnborough; Warmington; Wormleighton.

I have not distinguished between the varieties, but there appear to be forms that partake of the characters of this and other allied species.

**E. montanum, Linn.** *Broad-leaved Willow Herb.*

Top. Bot. 161. *Purt.* i. 190. Syme, E. B. iv. 12. 499.

Native; banks, waysides, and woods. Common, and generally distributed. P. June to September.

First record, Perry, MS., 1829, with white flowers.

Var. *flore-albo.* Rare.

2. BLYTHE. Sheldon, *Gorle.* Lane near Solihull.
4. AVON. In bushes, rather more than two miles from Warwick, 1829, *Perry, MS.* Dunchurch Road, Rugby.

## 10. CHERWELL. Whichford Wood.

Large-flowered form near White House, Tysoe. A branched form, with alternate leaves, very robust, occasionally on heavy soils.

**E. roseum, Schreb.**

Top. Bot. 161. Syme, E. B. iv. 15. 501.

Native; streams, pools, and damp places. Local. P. July to September.

First record, Rev. J. Gorle, 1836.

1. TAME. Waterworks grounds, Aston. An abundant weed in my own garden, Aston, year after year, not introduced.

2. BLYTHE. Sheldon, *Gorle*, 1836. Blythe Bridge, near Solihull; Shelly; stream near Packwood Church; marsh near Packington.

3. ANKER. Drains near Hartshill; banks of the Anker near Caldecote Mill, type and var. *flore-albo*.

4. AVON. Harborough Magna! *Blox*. Banks of the Avon, *Y. and B.* In a ditch near Easenhall, *Rugby Sch. Rep.*, 1872. Milverton; Stoneleigh! Charlchote! *Brom*.

5. LEAM. Banks of the Leam; Radford, *Y. and B.* Offchurch, *Brom*. Pool near Long Itchington; Leam, near Leamington; Wappenbury Wood.

6. SOW. Kenilworth, *Brom*.

7. STOUR. Honington! *Newb*.

8. ALNE. Claverdon! *Brom*. Footway from Great Fonthall to Tanworth; stream near Pinley Green; near Lawson Ford.

9. ARROW. Oversley Mill; Middletown, near Studley.

10. CHERWELL. Bridle road from Farnborough to Warmington.

**E. tetragonum, Linn.**

Top. Bot. 162. Purt. i. 191. Syme, E. B. iv. 16. 502.

Native; damp woods and marshy places. Rare. P. July to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Waterworks grounds, Aston; garden weed at Aston, 1883; Sutton Park; Hill Hook.

4. AVON. Side of the Avon; marshes about Bidford, *Purt.* i. 91. Side of the road between Whitnash and Warwick; between Warwick and Hampton-on-the-Hill, *Per. Fl.* 34. Milverton; Myton! *Brom*. Chesterton, *Herb. Per.* Alveston Pastures Wood, pointed out by the *Rev. W. W. Newbould*, September, 1880. Stratford-on-Avon; Old Park, Warwick.

5. LEAM. Harbury, *Brom*.

6. SOW. Combe Ridings, 1879; Corley Woods.

7. STOUR. Near Brailes; Rectory Garden, Shipston-on-Stour, *Newb*. Whichford Wood.

8. ALNE. Snitterfield! *Herb. Per.* Lane from Billesley to Wilmcote.

9. ARROW. Side of the Arrow near Broom, and near Wixford.

10. CHERWELL. Avon Dassett, near the village.

**E. obseurum, Schreb.**

Top. Bot. 163. Syme, E. B. iv. 17. 503.

Native; streams, pools, and marshy places. Local and rare. P. June to September.

First record, Rev. A. Bloxam, *Herb. Babington*, 1862.

1. TAME. Sutton Park; New Park, Middleton; Waterworks grounds, Aston; near Tyburn.
2. BLYTHE. Hampton-in-Arden; Meriden; Hill Bickenhill; sand quarry, near Stonebridge; Balsall Common; lanes to Tanworth.
3. ANKER. Atherstone, *Blox.*, *Herb. Bab.* Hartshill; Anker Mill, near Wolvey.
4. AVON. Milverton, *Brom.* Canal, near Stratford-on-Avon.
5. LEAM. Ufton Wood.
6. SOW. Kenilworth; Beausale Common, Haseley, *Brom.* Lane near Canley, Coventry; Combe Ridings.
7. STOUR. Wolford Wood, near Great Wolford.
8. ALNE. Canal, Bearley and Wilmcote; Austey Wood, near Wootton Wawen; Gannaway Grove.
9. ARROW. Oversley Wood; lane from Kingley to Wixford; Old Park Wood, Ragley; a form nearly approaching *E. tetragonum*, probably a hybrid form.

### *E. palustre*, Linn.

Top. Bot. 162. *Purt.* i. 190. Syme, E. B. iv. 18. 504.  
Native; bogs, marshes, and other watery places. Local. P. July to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Hill Hook; Middleton; Water Orton; &c.
2. BLYTHE. Coleshill Bog! *Purt.* i. 191. Marsh near Packington; Bannarsley Pool.
3. ANKER. Arbury Park, *Kirk*, *Herb. Per.* Atherstone; Hartshill; Wolvey's Hill, near Wolvey.
4. AVON. Leek Wootton, *Brom.* Fern Hill, *Y. and B.* Stratford-on-Avon Canal.
5. LEAM. Boggy ground by the canal, Offchurch, 1831, *Baynes*, *MS.*
6. SOW. Haseley, *Brom.* Combe Woods.
7. STOUR. Tredington, *F. Townsend.*
8. ALNE. Wilmcote! *Cheshire*, *Herb. Per.* Bearley Canal; Austey Wood, near Wootton Wawen.
9. ARROW. Oversley Wood.
10. CHERWELL. Wormleighton.

### CENOTHERA. Linn.

\**C. biennis*, Linn.

*Evening Primrose.*

*Purt.* iii. 355. Syme, E. B. iv. 24. 508.

Alien; railway banks and waste places. Rare. P. July to September

First record, Purton, Midland Flora, 1821.

2. BLYTHE. Lane near Solihull, an evident outcast from cultivation.
4. AVON. In Gog Lane (Warwick)? *Perry*, *MS.* Milverton, *Brom.*, *Herb. Bab.* Railway bank, near Warwick Priory, *Brom.*
6. SOW. On the ground of New Waterworks, Coventry, *Kirk*, *Phyt.* ii. 259.
9. ARROW. On the banks of the Arrow, at a distance from any house, abundantly, August, 1820, *Purt.* iii. 356. Sandy soils in Warwickshire, *Hooker's Brit. Flora*, *Ed.* 4. 161.

### CIRCÆA. Linn.

*C. Lutetiana*, Linn.

*Enchanter's Nightshade.*

Top. Bot. 164. *Purt.* i. 54. Syme, E. B. iv. 28. 511.

Native; woods and shady lanes. Locally common. P. July to September.

First record, Baxter, *MS.*, 1844.

1. TAME. Kingsbury Wood.
2. BLYTHE. Near Knowle, *Grove*. Marston Green; Eastcotes Green; lanes about Packwood.
3. ANKER. Bentley Park; Hartshill Hayes; Parley Park.
4. AVON. Road to Barby, *Baxter, MS.* Wood, near Pillerton Priors; Alveston Pastures.
5. LEAM. Near Frankton Wood! *Rugby Sch. Rep.*, 1877. Ufton Wood; Wappenbury Wood.
6. SOW. Combe Woods.
7. STOUR. Idlecote Wood, *Gorle*. Wolford Wood, near Great Wolford, with white flowers; Whichford Wood.
8. ALNE. Bearley and Snitterfield Bushes; Lapworth.
9. ARROW. Oversley Wood.
10. CHERWELL. Avon Dassett.

\**C. alpina*, Linn. *Mountain Enchanter's Nightshade.*

Alien; walls. Very rare. P. July.

Only record, W. Bree, jun., *Midland Flora*, 1817.

2. BLYTHE. Balsall Temple; Springfield, *W. Bree, jun., in Purt.* i. 54. Temple Balsall, *Brom., Herb. Per.*

The specimens in Perry's Herbarium appear to belong to the var. *C. intermedia*.

## ORD. XXXI. CUCURBITACEÆ.

### BRYONIA. Linn.

#### *B. dioica*, Jacq.

*White Bryony.*

Top. Bot. 172. *B. alba*, L. *Purt.* ii. 486. Syme, E. B. iv. 35. 517.

Native; hedges and bushy places. Frequent. P. June-July.

First record; Bree, *New Botanist's Guide*, 1835.

1. TAME. Sutton Park; Water Orton; Shustoke, &c.
2. BLYTHE. Coleshill; Hampton-in-Arden; Shirley.
3. ANKER. Hartshill; Chilvers Coton.
4. AVON. Pillerton, *Bolton King*. Lighthorne, *Miss Palmer*. Wolston Heath; Brandon; Binton; Beavington Waste.
5. LEAM. Ufton, rare, *Bolton King*. Offchurch; Snowford Bridge.
6. SOW. Shilton; Combe Fields.
7. STOUR. Easington; Great Wolford; Honington.
8. ALNE. Great Alne; Drayton Bushes.
9. ARROW. Broom; Sambourn.
10. CHERWELL. Priors Marston.

"I did not see this about Rugby."—*Baxter, MS.*

## ORD. XXXII. UMBELLIFERÆ.

### HYDROCOTYLE. Linn.

#### *H. vulgaris*, Linn.

*White Rot. Pennywort.*

Top. Bot. 186. *Purt.* i. 153. Syme, E. B. iv. 89. 566.

Native; bogs and marshy places. Local and rare. P. June to September.

First record, Purton, *Midland Flora*, 1817.

1. TAME. Hill Hook ; Sutton Park ; Middleton Heath.
2. BLYTHE. Honiley Heath, *Baynes, MS.* Coleshill Pool and Bog ; sand quarry, Cornets End, near Berkswell ; marsh, near Packington ; Olton Pool ; Earlswood Reservoir ; Forshaw Heath.
4. AVON. Pond by Brandon Wood, *Rugby Sch. Rep.*, 1886.
6. SOW. Baginton Park, *Per. Fl.* 25. Haseley Common, *Perry, MS.*, 1833. Kenilworth Heath, *Brom.*
7. STOUR. Barton Flat Heath.
8. ALNE. Near Haselor Fields ; near Hoo Mill, *Purt.* i. 153. Haywood, 1870.

### SANICULA. *Linn.*

#### *S. europæa*, *Linn.*

#### *Wood Sanicle.*

Top. Bot. 186. *Purt.* i. 148. Syme, E. B. iv. 92. 568.  
Native ; woods, coppices, and shady banks. Local. P. May to July.  
First record, Perry, Herb. Perry, 1813.

1. TAME. Hill Hook ; Sutton Park ; New Park, Middleton ; Kingsbury ; Arley.
2. BLYTHE. Fillongley ; Solihull ; Elmdon ; Earlswood.
3. ANKER. Coventry Wood, Arbury ; Hartshill Hayes.
4. AVON. Lighthorne, *Miss Palmer.* Edge Hill ; Alveston Pastures ; Salford Priors ; Red Hill.
5. LEAM. Princethorpe Wood ; Cubbington Wood ; Offchurch ; Ufton Wood.
6. SOW. Combe Woods.
7. STOUR. Honington, *Newb.* Old fox cover, Great Wolford ; Eatington.
8. ALNE. Austey Wood, Wootton Wawen ; Drayton Bushes.
9. ARROW. Oversley Wood ; Old Park Wood ; Wire Hill ; Coughton Park.
10. CHERWELL. Wood near Farnborough ; Ratley, Edge Hill.

### CONIUM. *Linn.*

#### *C. maculatum*, *Linn.*

#### *Hemlock.*

Top. Bot. 187. *Purt.* i. 141. Syme, E. B. iv. 173. 629.  
Native ; hedges, woods, and pastures. Local in north, frequent in south Warwick. P. June to August.  
First record, Dr. Lloyd, Herb. Perry, 1835.

1. TAME. Gravelly Hill ; Forge Mills.
2. BLYTHE. Maxstoke ; near Coleshill.
3. ANKER. Near Warton ; Caldecote.
4. AVON. Rugby, *Baxter, MS.* Warwick, *Brom.* Salford ! *Caswell.* Chadshunt, *Miss Palmer.* Chesterton ; Alveston Pastures ; Bidford ; Binton ; Red Hill.
5. LEAM. Willoughby ; Birdingbury ; Napton ; Long Itchington ; Ufton ; Harbury ; Shuckburgh.
6. SOW. Kenilworth ; Ansty ; Combe Ridings.
7. STOUR. Honington ! Shipston-on-Stour, *Newb.* Eatington ; Halford ; Burmington ; Great Wolford.
8. ALNE. Rowington canal siding ; Bearley Cross ; Billesley ; Great Alne.
9. ARROW. Ipsley ; Coughton Mill ; Broom.
10. CHERWELL. Farnborough ; Shotswell ; Warmington ; Avon Dassett ; Wormleighton.

\*\*[*Smyrniium Olusatrum*, *Linn.*, was recorded by the *Rev. W. W. Newbould* from near Honington].

**BUPLEURUM.** *Linn.***B. rotundifolium, Linn.** *Thorowax. Hare's-ear.*

Top. Bot. 194. *Purt.* i. 148. Syme, E. B. 120. 589.

Native; cultivated fields in calcareous soils. Rather rare. A. June-July.

First record, the Countess of Aylesford, *Bot. Guide*, 1805.

4. AVON. Wootton, near Warwick, *Aylesford, B. G.* 634. Bidford, *Purt.* i. 148. Tachbrook, *Y. and B.* Kineton; Chadshunt, *Bolton King*. Lighthorne, *Miss Palmer*. Moreton Morrell; Steeple Hill, near Bidford; Red Hill.
5. LEAM. Harbury, *Y. and B.* Ufton! *Bolton King*.
6. SOW. Near Brinklow Railway Station, *Blox.*
8. ALNE. Haselor; Grafton, *Purt.* i. 148. Wilmcote.
9. ARROW. Oversley; quarry near Exhall.

**APIUM.** *Linn.***A. graveolens, Linn.** *Wild Celery.*

Syme, E. B. iv. 98. 572.

Native; near streams and canals in calcareous soils. Very rare. P. July-August.

First record, Baxter, *British Phanerogamous Plants*, 1837

4. AVON. Dunchurch, *Baxter, MS.* Bishopton Spa, near Stratford-on-Avon, *Cheshire, Herb. Per.* Canal, Bishopton, *Brom.*, 1885.
5. LEAM. In ditches on the roadside between Dunchurch and Southam; nearly opposite to the village of Leamington Hastings, *Baxter*.
7. STOUR. Near Honington in one spot (the wild form) 1880, *W. W. Newbould*. The station given by Mr. Newbould is in the parish of Tredington, and near Blackwell. The plant does not occur nearer to Honington. *F. Townsend*.

**A. nodiflorum, Reichb.** *Sium nodiflorum, L. Helosciadium, Koch.*

Top. Bot. 190. *Purt.* i. 143. Syme, E. B. iv. 100. 573. 574.

Native; streams and ditches. Common, and generally distributed. P. June to September.

First record, Purton, *Midland Flora*, 1821, var. *b. repens*.

Var. *b. repens* (Koch). Rare.

1. TAME. Sutton Park, near Blackroot Pool.
2. BLYTHE. Marsh near Eastcotes Green.
4. AVON. Near the Woodloes; Warwick, *Brom.*
6. SOW. Rounsel Lane, Kenilworth, *Brom.*
9. ARROW. Cookhill, near Alcester, *Purt.* iii. 25.

Cookhill village is in Worcestershire, but so near to the borders of Warwickshire that possibly Purton's station may have been within the limits of the county.

**A. inundatum, Reichb.** *Helosciadium inundatum, Koch. Water Honewort.*

Top. Bot. 190. Syme, E. B. iv. 102. 575.

Native; marshes and pools. Local and rare. P. June to August.

First record, Freeman, *Phyt.*, 1841.

1. TAME. Sutton Park; Hill Hook.
2. BLYTHE. Coleshill Pool! *Freeman, Phyt.* i. 262. Shirley; Springbrook, near Earlswood; marshy wood near Birchy Leasowes; Forshaw Park, near Windmill Naps; Hell Common, near Honiley.
3. ANKER. Near Arbury Hall; Rye Hills; Shuttington.
4. AVON. Pond at Brandon Wood, *Rugby Sch. Report*, 1889.
7. STOUR. Pit on heathy pastures near Great Wolford.
9. ARROW. Near Sambourn, *Cheshire, Herb. Per.*

[\*\* *Animi majus*, Linn., occurs occasionally near the skin yards, Kenilworth, *Brom.* Brought with foreign skins.]

### CARUM. Linn.

[\* *C. Petroselinum*, Benth. *Common Parsley.*

*Petroselinum sativum*, Hoffm. Syme, E. B. iv. 103. 576.

Casual; walls and ruins. Rare. P. July.

First record, T. Kirk, *Phytologist*, 1842.

4. AVON. Naturalised on an old wall at Warwick, *Dr. Lloyd, Herb. Brit. Mus.*
6. Sow. Walls at Spon End, Coventry; in a deep rocky cutting on the L. and N.-W. Railway, near Whitley Common, *Kirk, Phyt.* i. 970. Kenilworth.]

*C. segetum*, Benth. *Petroselinum segetum*, Koch. *Corn Parsley. Corn Honewort.*

Top. Bot. 189. Syme, E. B. iv. 105. 577.

Native; banks in calcareous soils. Rare. A. July to September.

First record, Bree, *New Botanist's Guide*, 1835. Unlocalised.

4. AVON. Mont-Piers Hill; Bardon Hill, *Cheshire, Herb. Per.* Whitnash; Tachbrook, *Y. and B.* Myton; banks at the Cape and Stankhill, *Brom. Herb. Brit. Mus.* Near Chesterton Pool.
5. LEAM. Radbourne, *Bolton King.* Ufton, in abundance.
7. STOUR. Whatcote, *Newb.*

[\* *C. Carui*, Linn. *Carraway.*

Comp. Brit. 519. Syme, E. B. iv. 111. 582.

Casual; waysides and railway banks. Rare. B. June-July.

First record, Kirk, *Herb. Perry*, 1855.

1. TAME. Waysides near Oscott College, for several years, *Caswell.*
2. BLYTHE. Hampton-in-Arden, *Kirk, Herb. Per.*
4. AVON. Footpath to Lawford, and railway banks, Brandon, *Rugby Sch. Rep.*, 1877-80.
6. Sow. Railway banks, near Willenhall, *Kirk.*]

"I have picked the *Carui* on the banks of the L. and N.-W. Railway at various spots, between Hampton and Brandon, a length of fourteen or fifteen miles. Curiously enough, a policeman of Hampton informed me that he recollected a package of carraway seeds being injured whilst on a truck, and he supposed the seeds would be scattered all the way up the line."—*T. Kirk, Compend. Brit.* 519. Date not given.

SISON. *Linn.***S. Amomum**, *Linn.* *Hedge Stonewort. Hedge Honewort.*Top. Bot. 190. *Purt.* i. 151. *Syme*, E. B. iv. 106. 578.

Native; hedge banks and roadsides, in marly and calcareous soils. Local and rare. B. July to September.

First record, Bree, *New Botanist's Guide*, 1835. Unlocalised.

2. BLYTHE. Tyburn Lane, near Umberslade.
3. ANKER. Waysides, Austrey; Ryton, near Bedworth.
4. AVON. About Rugby and Hill Morton; Barby, Newbold and Lawford Roads, *Baxter, MS.* Newbold-on-Avon! *Blax.* Whitnash; Tachbrook, *Y. and B.* Lighthorne, *Miss Palmer.* Near Warwick, on the Birmingham Road; near Stratford-on-Avon; Bidford; Cathiron Lane.
5. LEAM. Willoughby; Birdingbury; Shuckburgh; Marton; Bourton; Cubington; Southam Holt.
6. SOW. Sow, near Coventry.
7. STOUR. Honington! Tysoe! Shipston! Halford! *Newb.* Ilmington; Great Wolford.
8. ALNE. Lapworth Street; Ullenhall; Tanworth; Bearley Cross; Pinley Green; Henley-in-Arden.
9. ARROW. Wixford; Alcester; Studley; Ipsley.
10. CHERWELL. Avon Dassett; Priors Marston.

SIUM. *Linn.*

[*S. latifolium*, *Linn.* Warwickshire, *Bree, Cat.*, *New Botanist's Guide*, 1835. Is probably a slip of the pen on the part of that eminent botanist who records it, *Pimpinella magna* being the plant intended].

**S. erectum**, *Huds.* *S. angustifolium*, *L.* *Lesser Water Parsnip.*Top. Bot. 193. *Purt.* i. 144. *Syme*, E. B. iv. 118. 588.

Native; rivers, ditches, pools. Local. P. July to September.

First record, Purton, *Midland Flora*, 1817.

1. TAME. Sutton Park; Middleton; Minworth; Kingsbury.
2. BLYTHE. In a pit at Honiley, 1833, *Baynes, MS.* Coleshill Pool; Hampton-in-Arden; Shirley Heath; Knowle.
3. ANKER. Rye Hills; Shuttington; Anker Mill, near Wolvey; near Austrey.
4. AVON. Harborough Magna; Avon, near Rugby, *Blax.* Myton; Chester-ton! *Brom.*
5. LEAM. Offchurch, *Baynes, MS.* Southam! *Y. and B.* Radbourne, *Bolton King.* Near Birdingbury Wharf; footway from Birdingbury to Draycote.
6. SOW. Pool by Sow Waste Bridge; canal side, Ansty.
7. STOUR. Honington; St. Dennis, *Newb.* Pool near Wolford Wood.
8. ALNE. Canal near Wootton Wawen; pool at Wootton Wawen; Lowson Ford.
9. ARROW. Washford Bridge, near Studley, *Purt.* i. 144.
10. CHERWELL. Pool near Farnborough Hall.

EGOPODIUM. *Linn.***Æ. Podagraria**, *Linn.* *Goutweed.*Top. Bot. 191. *Purt.* i. 159. *Syme*, E. B. iv. 108. 580.

Denizen? hedge banks, near villages. Common. P. May to July

First record, Dr. Lloyd, *Herb. Perry*, 1835.

1. TAME. Sutton; Erdington; Minworth, &c.
  2. BLYTHE. Knowle; Solihull; Earlswood, &c.
  3. ANKER. Rare. Wolvey; Atherstone.
  4. AVON. Harborough Magna; Dunchurch.
  5. LEAM. Southam; Ufton; Marton.
  6. SOW. Kenilworth; Allesley, &c.
  7. STOUR. Honington, fruiting freely, *Newb.* Ilmington; Whichford.
  8. ALNE. Lapworth; Wootton Waven, &c.
  9. ARROW. Sambourn; Studley.
  10. CHERWELL. Avon Dassett; near Farnborough; Ratley, Edge Hill.
- This is so frequent as to be scarcely worth localising.

### PIMPINELLA. Linn.

*P. Saxifraga*, Linn. *Burnet Saxifrage*.

Top. Bot. 192. *Purt.* i. 157. Syme, E. B. iv. 115. 585.  
 Native; banks and heathy waysides. Frequent and generally distributed. *P.*  
 June to September.  
 The large form, *P. dissecta*, Spreng., is very frequent in calcareous soils in the  
 southern part of the county.  
 First record, Cheshire, Herb. Perry, unnamed, 1854, Stratford-on-Avon.

*P. major*, Huds. *P. magna*, Linn. *Great Burnet Saxifrage*.

Top. Bot. 192. Syme, E. B. iv. 116. 586.  
 Native; banks and waysides. Local. *P.* July to September.  
 First record, Bree, Magazine of Nat. Hist., 1830.

1. TAME. Lanes about Arley and Shustoke; Over Whitacre.
2. BLYTHE. Lane by Maxstoke Castle; near Heach Wood, Maxstoke.
3. ANKER. Abundant on the road from Nuneaton to Atherstone; Mancetter;  
 Birchley Heath; Ryton, near Bedworth; Watling Street, near Three Pots.
4. AVON. Rugby, *Blax. N.B.G.S.*, 1837. Harborough Magna.
6. SOW. Allesley! Meriden! &c., *Bree, Mag. Nat. Hist.* iii. 164. Counten,  
*Kirk, Herb. Brit. Mus.* Near Tile Hill; Wyken Lane, near Coventry.
8. ALNE. Near Great Alne; Henley-in-Arden.
9. ARROW. Wixford; Alcester.

### CONOPODIUM. Koch.

*C. denudatum*, Koch. *Bunium flexuosum*, With. *Pig-nut. Earth-nut.*

Top. Bot. 191. *Purt.* i. 141. Syme, E. B. iv. 113. 584.  
 Native; banks, heaths, and woods. Common and generally distributed. *P.*  
 May to July.  
 First record, Perry, Herb. Perry, 1813, Warwick.

### MYRRHIS. Scop.

\**M. odorata*, Scop. *Scandix odorata*, L. *Sweet Cicely*.

Top. Bot. 206. *Purt.* i. 153. Syme, E. B. iv. 170. 626.  
 Alien; orchards and waste places, but always near houses. Rare. *P.* June.  
 First record, Purton, Midland Flora, 1817.

1. TAME. In a wild lane near the Old Chester Road, where Mason's  
 Orphanage now stands, 1870, probably merely a casual.
2. BLYTHE. Temple Balsall, *Purt.* i. 153.
9. ARROW. Studley Castle, *Purt.* i. 153.

**CHÆROPHYLLUM.** *Linn.*

**C. temulum**, *Linn.* *C. temulentum*, *L.* *Rough Chervil.*

Top. Bot. 206. *Purt.* i. 155. *Syme*, E. B. iv. 169. 625.

Native; banks and waysides. Common and generally distributed. *P.* May to August.

First record, Rugby School Report, 1868, near Rugby.

**SCANDIX.** *Linn.*

**S. Pecten-Veneris**, *Linn.* *Shepherd's Needle.*

Top. Bot. 205. *Purt.* i. 154. *Syme*, E. B. iv. 171. 627.

Colonist; cultivated fields. Common. *A.* April to October. Generally distributed, but uncertain in its occurrence.

First record, Rugby School Report, 1868, near Rugby.

**ANTHRISCUS.** *Hoffm.*

**A. vulgaris**, *Pers.* *Chærophyllum Anthriscus*, *Lam.*

Top. Bot. 205. *Purt.* i. 147. *Syme*, E. B. iv. 166. 622.

Native; hedges and waysides. Rare. *A.* June-July.

First record, Purton, Midland Flora, 1817, *Caulalis scandicina.*

2. **BLYTHE.** Lane from Marston Green to Elmdon, in hedge, 1866.

4. **AVON.** Hedge bank in the Woodloes, 1829, *Perry, MS.* Ashow, *Brom.* Hatton Rock, Emscote, *Y. and B.* Lane by Brandon Railway Station, abundant.

6. **SOW.** In the Lutterworth Road, near Combe Abbey Lodge, abundant.

9. **ARROW.** At the foot of the wall at Oversley Bridge! *Purt.* i. 147.

**A. sylvestris**, *Hoffm.* *Chærophyllum sylvestre*, *L.* *Wild Chervil.*

Top. Bot. 205. *Purt.* i. 154. *Syme*, E. B. iv. 168. 624.

Native; banks, fields, woods, &c. Common and generally distributed. *P.* April to June.

First record, Rugby School Report, 1868, near Rugby.

[\*\* *Feniculum officinale*, *All.* *Fennel.*

*Syme*, E. B. iv. 133. 601.

Casual; on railway banks. Rare. *P.* June.

4. **AVON.** Abundant on the railway banks between Warwick and Emscote, *Brom.*

5. **LEAM.** Abundant on banks near Eathorpe.]

**CENANTHE.** *Linn.*

**C. fistulosa**, *Linn.* *Water Dropwort.*

Top. Bot. 195. *Purt.* i. 149. *Syme*, E. B. iv. 124. 593.

Native; marshes and wet places. Local. *P.* June to August.

First record, Rugby School Report, 1868, Rugby.

1. **TAME.** Marsh near Trickleby Coppice; Whitacre.

2. BLYTHE. Marston Green; Duke's Bridge; Coleshill Pool; Bannersley; Meriden; Hampton-in-Arden; Bedlam's End, near Knowle; Forshaw Heath; Waring's Green.
3. ANKER. Rather rare, Ryton, near Bedworth; near Burton Hastings.
4. AVON. Whitnash, *Y. and B.* Old canals, near Clifton Mill, between Newbold and Harborough! near Little Lawford! *Rugby Sch. Rep.*, 1877. Alveston Pastures.
5. LEAM. Stockton; Dippers Bridge, near Harbury; canal, near Birdingbury.
6. SOW. Kenilworth, *Y. and B.* Withybrook; Ansty; Sow Waste Canal; near Combe Abbey.
7. STOUR. Honington, *Newb.* Wimpstone Fields.
8. ALNE. Near Drayton Bushes! Stratford-on-Avon.

**Æ. peucedanifolia**, "Poll." *Æ. silaifolia*, S.C. non Bieb.

Top. Bot. 196. *Purt.* i. 150. Syme, E. B. iv. 126. 595.

Native; ditches. Very rare. P. July-August.

First record, Withering's Arrangement, 1818.

1. TAME. In a gorsy field by Small Heath House, near Birmingham, *With.* Ed. 6. ii. 409.
4. AVON. Bidford, *Purt.* i. 150. Near the footroad to Bishopton Spa, near Stratford-on-Avon, *Cheshire, Herb. Per.*
8. ALNE. Great Alne; Grafton, *Purt.* i. 150.

Probably *Æ. Lachenalii* was the plant found by Purton; Cheshire's plant is too immature to determine.

**Æ. Lachenalii**, *Gmel.*

Syme, E. B. iv. 127. 596.

Native; marshy and boggy moorlands. Rare. P. July to September.

First record, the Author, 1880.

4. AVON. Marshes and drains, Alveston Pastures and Wood, August, 1880; abundant, 1886.
5. LEAM. Itchington Holt, *Brom.*, 1886.
7. STOUR. Honington, *Newb.* This station is in the parish of Halford, *F. Townsend*, 1890. Abundant, Wimpstone Fields, 1886.
8. ALNE. Near Drayton Bushes, near Stratford-on-Avon.

**Æ. crocata**, *Linn.*

*Hemlock. Water Dropwort.*

Top. Bot. 197. Syme, E. B. iv. 128. 597.

Native; banks of rivers and streams. Rare. P. July-August.

First record, the Author, 1867.

1. TAME. Abundant between Witton Road and Aston Church, banks of the Tame, 1867. Gravelly Hill, canal side; Castle Bromwich; Water Orton; Hemlingford Green, near Kingsbury, abundant, 1883.
2. BLYTHE. Hams Hall Park.

**Æ. Phellandrium**, *Lam.*

*Water Horsebane.*

Top. Bot. 198. *Purt.* i. 156. Syme, E. B. iv. 130. 598.

Native; rivers, ditches, and pools. Rare. P. July-August.

First record, Purton, Midland Flora, 1817. *Phellandrium aquaticum*, L.

4. AVON. The Avon at Rugby Mill and other places, *Blox.*, *N. B. G. S.* Near Stratford-on-Avon, *Cheshire Herb. Per.* Compton Verney, *Brom.* River in Brownsover Fields and Little Lawford Mill, *Rugby Sch. Rep.*, 1877. Chesterton Mill Pool.
9. ARROW. In an old gravel pit full of water, at the Edens Way (Heyden), *Purt.* i. 156.

**Æ. fluviatilis**, *Coleman.*

Top. Bot. 198. Syme, E. B. iv. 131. 599.

Native; rivers and streams. Rare. P. June-July.

First record, Bloxam, 1872.

3. ANKER. Bole Bridge, Tamworth, and frequently up the river to near Wetherley, 1885.
4. AVON. In the river near Brownsover, *Rugby Sch. Rep.*, 1878. Harborough Magna, *Blox.* Stream by the side of the Newbold Road, near Rugby Mill, 1884.
5. LEAM. Emscote; Birdingbury, *Y. and B.* In the Leam, near Leamington; Birdingbury! *Brom.* Leam at Marton; in the Itchen, Snowford Bridge, and by the canal near Long Itchington.
6. SOW. In the River Sow, near Willenhall, 1888.

**ÆTHUSA.** *Linn.*

**Æ. Cynapium**, *Linn.*

*Fool's Parsley.*

Top. Bot. 199. *Purt.* i. 155. Syme, E. B. iv. 132. 600.

Native; fields, waysides, waste heaps, &c. Common and generally distributed.

A. June to October.

First record, Dr. Lloyd, Herb. Perry, 1835.

**SILAUS.** *Besser.*

**S. pratensis**, *Bess.* *Peucedanum Silaus*, L. *Pepper Saxifrage.* *Sulphurwort.*

Top. Bot. 200. *Purt.* i. 150. Syme, E. B. iv. 139. 604.

Native; fields and roadsides. Frequent. P. June to August.

First record, Bree, New Bot. Guide, 1835.

1. TAME. Nether Whitacre; Hurley; Arley.
2. BLYTHE. Maxstoke; Stonebridge; Hampton-in-Arden; Earlswood.
3. ANKER. Near Bulkington; Wolvey; Burton Hastings; Austrey, &c.
4. AVON. Meadows by the Avon, Rugby, *Blox.*, *N.B.G.S.*, 1837. Tachbrook, *Y. and B.* Whitnash, *Brom.* Edge Hill; Alveston Pastures; Bidford.
5. LEAM. Harbury! *Brom.* Birdingbury; Marton; Ufton.
6. SOW. Sow Waste! *Kirk.* Kenilworth! *Y. and B.* Combe Fields.
7. STOUR. Tysoe! Whatcote; Honington, *Newb.* Great Wolford; Brailes; Ilmington; Wimpstone Fields.
8. ALNE. Henley-in-Arden; Little Alne; Billesley; lane from Snitterfield to Wilmcote, &c.
9. ARROW. Cold Comfort; Alcester Heath; Sambourn; Ipsley.
10. CHERWELL. Warmington; Avon Dassett; Priors Marston.

**ANGELICA.** *Linn.*

**A. sylvestris,** *Linn.* *Wild Angelica.*

Top. Bot. 201. Purt. i. 144. Syme, E. B. iv. 145. 607.  
Native; marshes and damp places. Common and generally distributed. P.  
July to October.  
First record, the Author, 1866, Sutton Park.

**PEUCEDANUM.** *Linn.*

**P. sativum,** *Benth.* *Pastinaca sylvestris,* L. *Wild Parsnip.*

Top. Bot. 201. Purt. i. 156. *Pastinaca sativa,* L. Syme, E. B. iv. 151. 612.  
Native; banks, fields, and roadsides, in calcareous soils. Local and rare.  
P. July-August.  
First record, Bree, Cat. New Bot. Guide, unlocalised, 1835.

4. AVON. Common about Rugby, *Baxter, MS.* Side of the canal near Rugby School, *Blox., N. B. G. S.,* 1837. Whitnash, *Y. and B.* Chesterton; Lighthorne, *Miss Palmer.* Edge Hill; Alveston Pastures; Bidford; Binton; Kineton; &c.
5. LEAM. Harbury! *Y. and B.* Ufton; Long Itchington; Birdingbury.
7. STOUR. Whatcote! Honington! Halford, *Newb.* Crimsote and Wimpstone Fields; Oxhill; Brailes; Fullready.
8. ALNE. Rowington, canal bank; Great Alne; Kinwarton.
9. ARROW. Wixford; Exhall; Oversley.
10. CHERWELL. Avon Dassett; Farnborough.

**HERACLEUM.** *Linn.*

**H. Sphondylium,** *Linn.* *Cow-parsnip.*

Top. Bot. 202. Purt. i. 142. Syme, E. B. iv. 154. 613.  
Native; banks, woods, fields, &c. Common and generally distributed. P.  
May to October.  
First known record, Rugby School Report, 1878, near Rugby.

Var. *b. angustifolium.* Rare.

4. AVON. Dripping Wells and railway bank, Milverton, *Brom.* Compton Verney.
7. STOUR. Honington, *Newb.* Little Wolford Heath.
8. ALNE. Drayton Rough Moors, abundant, 1881.
9. ARROW. Morton Bagot.
10. CHERWELL. Near Farnborough.

Seeds from well marked plants of this variety, grown in my garden, produced the typical plant.

**DAUCUS.** *Linn.*

**D. Carota,** *Linn.* *Wild Carrot.*

Top. Bot. 202. Purt. i. 140. Syme, E. B. iv. 157. 615.  
Native; banks, heathlands, pastures, &c. Common and generally distributed.  
B. July to September.  
First record, Dr. Lloyd, Herb. Perry, 1835.

CAUCALIS. *Hoffm.***C. daucoldes**, *Linn.**Fine-leaved Hen's-foot.*Top. Bot. 203. *Purt.* i. 146. Syme, E. B. iv. 160. 617.

Colonist; cultivated fields in calcareous soils. Rare. A. June-July.

First record, Purton, Midland Flora, 1817.

4. AVON. Cornfields at Binton, *Brom.*, *Exch. Club Rep.*, 1875. Fields between Wilmcote and Stratford-on-Avon.
8. ALNE. Alne Hill, *Rufford*. In fields about Drayton Bushes! *Purt.* i. 146. Red Hill, near Alcester; field near Billesley.
9. ARROW. Stone quarry near Exhall.

**C. arvensis**, *Huds.* *Torilis infesta*, Spreng.Top. Bot. 203. *Purt.* i. 147. Syme, E. B. iv. 162. 619.

Native; fields and banks, especially in calcareous soils. Local and rare. A. June to August.

First record, Bree, Cat. New. Bot. Guide, 1835, unlocalised.

1. TAME. Curdworth; Wishaw.
2. BLYTHE. Temple Balsall; Solihull; Packington.
3. ANKER. Hartshill.
4. AVON. Chesterton, *Y. and B.* Near Rugby, *Rugby Sch. Rep.*, 1878. Fields, Salford Priors. *Caswell*. Kineton, *Bolton King*. Moreton Morrell; Alveston Pastures; Binton.
5. LEAM. Offchurch; Ufton.
6. SOW. Rounsel Lane, near Kenilworth.
7. STOUR. Lambcote, *Newb.*
8. ALNE. Near Wilmcote, *Blox.*, *New Bot. Guide*, 1837; fields near Drayton Bushes; Alne Hills; Henley-in-Arden.
9. ARROW. Fields near Alcester, *Blox.*, *N. B. G. S.*, 1837. Banks near Arrow Village.
10. CHERWELL. Fallow field, Avon Dassett.

**C. Anthriscus**, *Huds.* *Torilis Anthriscus*, Gaert.*Hedge Parsley.*Top. Bot. 203. *Purt.* i. 145. Syme, E. B. iv. 163. 120.

Native; banks, roadsides, &amp;c. Common, and generally distributed. A. June to September.

First known record, the Author, 1866, Sutton Park.

**C. nodosa**, *Scop.* *Torilis nodosa*, Gaert.*Knotted Hedge Parsley.*Top. Bot. 204. *Purt.* i. 146. Syme, E. B. iv. 164. 621.

Native; walls and meadows in calcareous soils. Rare. A. June-July.

First record, Purton, Midland Flora, 1817.

1. TAME. Stechford, *Grove*.
4. AVON. Near the race stand, Warwick, *Per. Fl.* 25. Near Warwick, on the Birmingham Road, *Perry, MS.* Warwick, Chesterton! *Y. and B.* Bank at the Cape, Warwick, *Brom.* On banks of old lime works, Little Lawford, and King's Newnham, near Newbold Lime Works, *Rugby Sch. Rep.*, 1876. In meadows near Chesterton Mill.
5. LEAM. Near the canal, between Radford and Bascote, *Baynes, MS.* Ufton, near the village, 1873.
8. ALNE. On a wall at Walcote, *Purt.* i. 146.

## ORD. XXXIII. ARALIACEÆ.

HEDERA. *Linn.***H. Helix, Linn.***Common Ivy.*

Top. Bot. 185. Purst. i. 132. Syme, E. B. iv. 181. 633.

Native; woods, banks, old walls, and ruins. Common, and generally distributed. S. September-October.

First record, Dr. Lloyd, Herb. Perry, 1835, Warwick.

## ORD. XXXIV. CORNACEÆ.

CORNUS. *Linn.***C. sanguinea, Linn.***Dogwood. Bloody-twieg.*

Top. Bot. 185. Purst. i. 100. Syme, E. B. iv. 186. 635.

Native; hedges and woods. Locally common. S. June-July.

First record, Kirk, Herb. Perry, about 1855.

1. TAME. Middleton; Shustoke; Hurley; Kingsbury.
2. BLYTHE. Maxstoke; Elmdon; Hampton-in-Arden; Earlswood; Forshaw Heath.
3. ANKER. Bentley Park; Hartshill; Grendon; Oldbury; Shuttington; Austrey; Newton Regis.
4. AVON. Salford, *Carwell*. Lighthorne, *Miss Palmer*. Brandon; Oakley; Stratford-on-Avon; Bardon Hill; Red Hill.
5. LEAM. Bishop's Itchington, *Bolton King*. Napton; Ufton; Southam; Harbury.
6. SOW. Wyken, *T. Kirk, Herb. Per.* Near Foleshill; Combe Fields.
7. STOUR. Honington; Halford, *Newb.* Tysoe; Wimpstone Fields; Atherstone-on-Stour.
8. ALNE. Rowington; Lapworth; Bearley Cross; Wawen's Moor; Little Alne; Preston Bagot.
9. ARROW. Ipsley; Morton Bagot; Spennall; Out Hill; Coughton.
10. CHERWELL. Farnborough; Warmington; Avon Dassett.

## ORD. XXXV. CAPRIFOLIACEÆ.

ADOXA. *Linn.***A. Moschatellina, Linn.***Tuberous Moschatel.*

Top. Bot. 184. Purst. i. 202. Syme, E. B. iv. 198. 636.

Native; banks and woods. Local and rare. P. April-May.

First record, Withering's Arrangement, 1801.

1. TAME. In a wood on the S.W. side of the pool at Edgbaston, plentiful; in the woods north of Aston Park, *With. Ed.* 4. ii. 380. Gravelly Hill; Erdington; Castle Bromwich; Kingsbury; Fillongley.

2. BLYTHE. Marston Green; Hill Bickenhill; Bentley Heath, near Solihull; Henfield, near Knowle; Solihull; Shirley; Earlswood.
4. AVON. Lane leading from turnpike lane to Woodloes; rough land near Chesford Bridge, *Perry MS.* Blakedown, *Brom.* Harborough Magna; Edge Hill Wood, and Warwick Road, near Edge Hill.
5. LEAM. Near Leamington, *Baynes, MS.* Lillington.
6. SOW. Shrewley; Kenilworth, *Y. and B.* Allesley; Meriden; Honiley.
7. STOUR. Honington, *Newb.* Whichford Wood.
8. ALNE. Rowington; Kingswood; Alne Hills.
9. ARROW. Alcester Mill, in the rough ground by the floodgates, *Purt.* i. 206. Near Coughton Mill; Sperrall; Washford.

SAMBUCUS. *Linn.**S. nigra*, *Linn.* *Common Elder.*

Top. Bot. 207. *Purt.* i. 162. Syme, E. B. iv. 199. 637.

Native; woods and hedges. Common and generally distributed. Small tree. May to July.

First record, Withering's Arrangement, 1787, unlocalised. Berries white or green, *With. Ed.* 2. ii. 321, Warwickshire. With white fruit, Coleshill, *Bree, Mag. Nat. Hist.* i. 393.

Var. 2. *laciniata*, *Linn.* Parsley-leaved variety. Rare. Wixford Lane, *Purt.* i. 162.

*S. Ebulus*, *Linn.* *Dwarf Elder.*

Top. Bot. 207. *Purt.* i. 162. Syme, E. B. iv. 201. 638.

Denizen; hedges and banks. Rare. S. July-August.

First record, Withering's Arrangement, 1801.

2. BLYTHE. A few hundred yards from Knowle, by the side of the road leading to Warwick! *With. Ed.* 7. ii. 400.
3. ANKER. At the foot of Tamworth Castle Hill, towards the river, *With. Ed.* 4. ii. 381.
4. AVON. Moreton Morrell churchyard, *With. Ed.* 7. ii. 400. Believed to be extinct there.
7. STOUR. In the grounds of E. P. Shirley, Esq., Eatington Park, *Gorle.*
8. ALNE. Near Grafton Church, on the side of the road, *Purt.* i. 162. This has been seen in this station recently by the Rev. J. H. Thompson.

VIBURNUM. *Linn.**V. Opulus*, *Linn.* *Guelder Rose.*

Top. Bot. 209. *Purt.* i. 161. Syme, E. B. iv. 202. 639.

Native; hedges and woods. Local. S. June-July.

First record, Ick, Analyst, 1837.

1. TAME. Water Orton, *Grove.* Sutton Park; Middleton; Forge Mills; Shawberries Wood; Kingsbury Wood.
2. BLYTHE. Coleshill Bog! *Ick, Anal.*, 1837. Near Stonebridge; Bradnock's Marsh; Solihull; Birchy Leasowes, near Earlswood; Little Ladbroke; Butler's Wood, Maxstoke.
3. ANKER. Arbury; Hartshill Hayes; Bentley Park; Baxterley; Grendon Wood; Baddesley Common; Islington; Bretnall Wood, near Ansley.

4. AVON. Salford! *Caswell*. Lighthorne, *Miss Palmer*. Near Avon Mill, *Rugby Sch. Rep.*, 1876.
5. LEAM. Radford, *Y. and B.* Itchington Holt; canal, near Bascote Heath; Ufton Wood.
6. SOW. Kenilworth, *Y. and B.* Combe Woods.
7. STOUR. Near Shipston, *Newb.* Whichford Wood.
8. ALNE. Austey Wood; Wootton Wawen; Snitterfield and Bearley Bushes; near Wilmcote; Claverdon; Kingswood.
9. ARROW. Broadmoor Wood, near Alcester; Studley Park; Wire Hill, Sambourn.

**V. Lantana, Linn.***Wayfaring Tree.*

Top. Bot. 210. Purt. i. 160. Syme, E. B. iv. 203. 640.

Native; woods and hedges, in calcareous soils. Local and rare. S. May-June. First record, Withering's Arrangement, 1830.

4. AVON. Hedge between Harborough and Cosford, *Bloxam*. Whitnash; Chesterton! *Y. and B.* Gaydon, *Bolton King*. Kineton; Friz Hill, Compton Verney; Pillerton; Alveston Pastures; Binton.
5. LEAM. Near Frankton Wood! *Rugby Sch. Rep.*, 1877. Hedges between Leamington and Southam! *With. Ed.* 7. ii. 398. Ufton Wood; Napton Holt.
7. STOUR. Shipston! *Newb.* Great Wolford; Long Compton; Lower Easington.
8. ALNE. Anstey Wood; Wootton Wawen; Henley-in-Arden; Little Alne; Claverdon; Aston Cantlow; Drayton Bushes; Wilmcote.
9. ARROW. Oversley Wood; Greenhill Green, near Sperrall; Morton Bagot.
10. CHERWELL. Wormleighton; Farnborough; Priors Marston.

**LONICERA. Linn.**

[\*\**L. Caprifolium*, Linn. Chadshunt, *Bolton King*. "Quite naturalised."]

**L. Periclymenum, Linn.***Woodbine. Honeysuckle.*

Top. Bot. 210. Purt. i. 124. Syme, B. B. iv. 207. 642.

Native; woods and hedges. Common and generally distributed. S. June to September.

First record, Dr. Lloyd, Herb. Peiry, 1835. Forma *quercinis*, about Rugby, *Baxter MS.*

[\*\**L. Xylosteum*, Linn. In the wood S. W. side of the lake in Edgbaston Park, 1812. *With. Ed.* 5. ii. 215.]

**ORD. XXXVI. RUBIACEÆ.****GALIUM. Linn.****G. Cruciata, Scop. *Valantia Cruciata*, L. Sib.***Crosswort.*

Top. Bot. 211. Purt. ii. 489. Syme, E. B. iv. 213. 647.

Native; banks, waysides, and woods. Common and generally distributed. P. May to July.

First record, Perry List, 1817, unlocalised.

**G. verum, Linn.***Ladies' Bedstraw. Cheese Rennet.*

Top. Bot. 210. Purt. i. 96. Syme, E. B. iv. 214. 648.

Native; hedge banks, and fields. Locally common. P. July-August.

First record, Rugby School Report, 1878.

1. TAME. Sutton Park; Middleton; Castle Bromwich; Shustoke.
2. BLYTHE. Solihull; Knowle; Earlswood.
3. ANKER. Hartshill; Baddesley Ensor; Shuttington, &c.
4. AVON. Oakley; Alveston Heath; Bidford, &c.
5. LEAM. Princethorpe; Birdingbury; Marton; Frankton.
6. SOW. Stoke Heath; Combe Fields, &c.
7. STOUR. Honington; Shipston, *Newb.* Great Wolford.
8. ALNE. Henley-in-Arden; Claverdon; Yarningale.
9. ARROW. Arrow; Alcester Heath; Sperrall; Morton Bagot.
10. CHERWELL. Farnborough; Warmington.

Var. *b. ochroleucum*, Syme. Rare.

4. AVON. In a pit by the footpath from Wellesbourne to Moreton Morrell, one large patch with *G. verum*, *Brom.*

**G. erectum, Huds.***Upright Bedstraw.*

Top. Bot. 212. Purt. iii. 564. Syme, E. B. iv. 217. 649.

Native; meadows, pastures, and banks. Rare. P. June-July.

First record, Purton, Midland Flora, 1821.

2. BLYTHE. Coleshill Heath, *N.B.G.* 1835.
4. AVON. Cathiron Lane, near Rugby, *Blox.* Railway banks between Leek Wootton and Kenilworth! *Brom.*
5. LEAM. Near Radford Semele. *Perry, MS.* Near Harbury.
8. ALNE. Footway, lane above Billesley to Wilmcote.
9. ARROW. On the side of a wet ditch at Pophills, June 27, 1821, *Purt.* iii. 564.
10. CHERWELL. Ratley, Edge Hill.

**G. Mollugo, Linn.***Great Bedstraw.*

Top. Bot. 213. Purt. i. 98. *G. elatum*, Th. Syme, E. B. iv. 218. 650.

Native; banks, fields, hedges, &c. Locally common. P. July-August.

First record, Perry, *Plantæ Selectæ*, 1820.

2. BLYTHE. Canal bank, Hatton to Knowle; Berkswell; near Meriden; Forshaw Heath.
4. AVON. Lane leading from Alveston Church to the Mill! Kineton Hill! On the road to Wellesbourne Green, *Perry, MS.* Weir-break Hill, and Cross-of-the-Hill, near Stratford, *Per. Fl.* 12. Moreton Morrell; Walton, *Brom.* Binton; Beavington Waste.
5. LEAM. Ufton Wood! *Perry, MS.* Radford Semele! *Baynes, MS.* Birdingbury; Princethorpe; Marton.
7. STOUR. Halford, *Newb.* Great Wolford; Easington, &c.
8. ALNE. Temple Grafton; Little Alne; Wawen's Moor; Henley-in-Arden; Ullenhall; Tanworth.
9. ARROW. Sperrall; Coughton; Wetherley; Kingley.
10. CHERWELL. Warmington; Ratley, Edge Hill.

Var. *scabrum*, With.

5. LEAM. Radford Semele, *Brom.*
7. STOUR. Honington, *Newb.* Great Wolford.
10. CHERWELL. Near Ratley, Edge Hill.

Var. *c. Bakeri*, Syme. Rare.

4. AVON. Moreton Morrell, *Brom.*
5. LEAM. Ufton Wood, *Exch. Club. Rep.*, 1876, *Brom.*
9. ARROW. Golden Cross Lane, Exhall.

*G. Mollugo*, which is often most abundant in the South Warwickshire districts, is apparently absent from both Tame, Anker, and Sow districts.

### **G. saxatile**, Linn.

#### *Heath Bedstraw.*

Top. Bot. 212. *Purt.* i. 96. (*G. procumbens*, With.) Syme, E. B. iv. 219. 651.

Native; dry banks and heaths. Local and rare. P. June-July.

First record, Perry List, 1817.

1. TAME. Castle Bromwich Heath! *Jck.* 1838. Sutton Park; Hill Wood, near Sutton; Hill Hook; Middleton Heath; Kingsbury; Arley Wood.
2. BLYTHE. Coleshill Heath; Shirley Heath; Honiley Common; Earlswood; Forshaw Heath.
3. ANKER. Heathlands, Bentley; Hartshill; Oldbury Reservoir; Baxterley and Baddesley Commons.
4. AVON. Between Dunchurch and Rugby, *Baxter, MS.* Near Oakley Wood! *Perry, MS.*
5. LEAM. Ufton Wood! *Baynes, MS.* Harbury Heath; Long Itchington.
6. SOW. Kenilworth Heath! *Perry List*, 1817. Rounsel Lane; Sow Waste; Corley Moor.
7. STOUR. Heath land near Great Wolford; Wimpstone Fields.
8. ALNE. Yarningale Common; near Bushwood; near Henley-in-Arden.
9. ARROW. Studley Common! *Purt.* i. 97. Oversley Wood; Coughton Park; Wire Hill, Sambourn.
10. CHERWELL. Wormleighton; Ratley, Edge Hill.

### **G. palustre**, Linn.

#### *Marsh Bedstraw.*

Top. Bot. 211. *Purt.* i. 98. Syme, E. B. 221. 653.

Native; Marshes, drains, and streams. Common, and generally distributed. P. June to September.

First record, Kirk, 1848, *Herb. Perry*.

Var. *b. elongatum* (Presl.). Rare and local. Syme, E. B. iv. 221, 653.

1. TAME. Lane from Water Orton to Minworth; near Kingsbury; Hill Hook.
2. BLYTHE. Coleshill Pool; osier bed, near Solihull, lane from Rotten Row to Knowle; Shirley Heath.
3. ANKER. Near Shuttington.
4. AVON. Myton; River Avon, near Hill Wootton, *Brom.*
5. LEAM. Leam, near Offchurch! *Brom.* Stream, near Stockton.
6. SOW. Near Withybrook, *Rugby Sch. Rep.*, 1886. Sow Waste; cattle pool, near Combe Abbey.
7. STOUR. Honington! *Newb.*
9. ARROW. Wire Hill Wood, Sambourn.
10. CHERWELL. Wormleighton Reservoir.

Var. *c. Witheringii* (Sm.) Local and rare. Syme, E. B. iv. 222. 654.

First record, the Author, 1869, Coleshill Pool.

1. TAME. Sutton Park; Hill Hook.
2. BLYTHE. Coleshill Pool, 1869; Bannersley Pool; bog near Packington; Shirley; Forshaw Heath.
3. ANKER. Near Shuttington Bridge.
4. AVON. Abundant, road from Combe Ridings to Binley Common.
6. SOW. Corley Moor.
7. STOUR. Pit, Wolford Heath, near Great Wolford.
8. ALNE. Yarningale Common! Shrewley Common, *Brom.* Canal near Wootton Wawen; Austey Wood.
9. ARROW. Marshy pit near Sambourn.
10. CHERWELL. Wormleighton Reservoir; Wormleighton.

**G. uliginosum, Linn.**

*Bog Bedstraw.*

Top. Bot. 211. *Purt.* i. 99. Syme, E. B. iv. 222. 655.

Native; bogs and marshes. Rare. *P.* July-August.

First record, Perry List, 1817.

1. TAME. Sutton Park; Arley Wood.
2. BLYTHE. Coleshill Bog, *Purt.* i. 99. Bannersley Pool.
4. AVON. Bog at the Woodloes, *Brom.* Green's Grove, Hatton, *Perry List*, 1817.
5. LEAM. Frankton Wood, *Rugby Sch. Rep.*, 1889.
6. SOW. Rounsel Lane! 1821, *Perry, MS.* Haseley, *Brom.*
7. STOUR. Great Wolford Heath.
8. ALNE. Canal, near Lowson Ford; and near Dilke's Lane.

[\*\**G. anglicum*, Huds. On high ground in Oversley Wood, *Purt.* i. 97. Appears to be a mistake, the only *Galium* occurring in this part of the wood is a tall form of *G. saxatile*, which Purton does not record from this station.]

**G. Aparine, Linn.**

*Common Goose Grass. Cleavers.*

Top. Bot. 214. *Purt.* i. 97. Syme, E. B. iv. 225. 658.

Native; hedges, woods, and cultivated fields. Common and generally distributed. *P.* May to September.

First record, Dr. Lloyd, Herb. Perry, 1835.

**G. tricornne, With.**

*Rough Corn Bedstraw.*

Top. Bot. 214. *Purt.* i. 98. Syme, E. B. iv. 226. 659.

Colonist; fields, in calcareous and marly soils. Local and rare. *A.* July-August. First record, Purton, Midland Flora, 1817.

4. AVON. Chesterton; Tachbrook; Lighthorne, *Brom.* Kineton; Chads-hunt, *Bolton King.* Moreton Morrell; Binton; Steeple Hill, Bidford; Red Hill; Alveston Heath; Brandon.
5. LEAM. Near Birdingbury! *Rugby Sch. Rep.*, 1877. Harbury! *Brom.* Ufton.
7. STOUR. Honington; Halford, *Newb.*
8. ALNE. On Alne Hills, *Rufford.* In a cornfield by Drayton Bushes, *Purt.* i. 99. Occurred there as late as 1885. Temple Grafton; Wilmcote; fields in footway to Aston Cantlow from Bearley Cross.
9. ARROW. Quarry, near Exhall.

## ASPERULA. Linn.

**A. odorata**, Linn.*Sweet Woodruff.*

Top. Bot. 215. Purt. i. 101. Syme, E. B. iv. 228. 660.

Native; damp woods and marly banks. Locally common. P. April to July.  
First record, Purton, Midland Flora, 1817.

1. TAME. Arley Wood; Shustoke; Kingsbury.
2. BLYTHE. Lanes about Meriden, and Meriden Shafts; Kenwalsey; Hockley, near Knowle; Shirley; Earlswood.
3. ANKER. Hartshill Wood; Bentley Park; Baddesley Common; Merivale; Parley Park; Austrey.
4. AVON. Plantations about Coton House, Rugby, *Baxter*. Cathiron Lane! *Rugby Sch. Rep.*, 1876. Whitnash, *Y. and B.* Edge Hill, *Beesley*. Harborough Magna; Waverley Wood, Stoneleigh; Red Hill, near Alcester.
5. LEAM. Ufton Wood! *Baynes, MS.* Cubbington Wood.
6. SOW. Allesley; Combe Woods.
8. ALNE. Kemp's Green, near Lapworth; Wilmcote; Stoooper's Wood, near Wootton Wawen; Austey Wood; Snitterfield, and Bearley Bushes.
9. ARROW. Oversley! Spennall! Ragley Woods! *Purt.* i. 101. Banum's Wood, Morton Bagot.

**A. cynanchica**, Linn.*Quinancy-wort.*

Syme, E. B. iv. 229. 661.

Native; cornfields. Very rare. P. July.

First record, Rev. A. Bloxam, 1875.

8. ALNE. Cornfields near Wilmcote, *Blox. in Litt.*

## SHERARDIA. Dillen.

**S. arvensis**, Linn.*Blue Field Madder. Spurwort.*

Top. Bot. 215. Purt. i. 99. Syme, E. B. iv. 231. 663.

Native; fields, pastures, and meadows. Common and generally distributed.  
B. April to October.

First known record, Perry, Herb. Perry, 1812, near Leamington.

## ORD. XXXII. VALERIANEÆ.

## VALERIANA. Linn.

**V. dioica**, Linn.*Marsh Valerian.*

Top. Bot. 215. Purt. i. 59. Syme, E. B. iv. 238. 668.

Native; marshes and wet meadows. Local and rare. P. May-June.

First record, Withering's Arrangement, 1801.

1. TAME. Garlic Meadows, Erdington, *With. Ed.* 4. ii. 64. Sutton Park; Middleton Heath.
2. BLYTHE. Coleshill Pool; Hampton-in-Arden; meadow by Olton Pool; meadows near Packwood Windmill; near Hockley; near Solihull Railway Station.

3. ANKER. Marshy meadow, near Burton Hastings ; rare in this district.
4. AVON. Near the race stand, Warwick, *Perry List*, 1817. Guy's Cliff, *Baynes, MS.*, 1831. Lighthorne, *Miss Palmer*.
5. LEAM. Radford Semele ; Southam, *Baynes, MS.*, 1831. At Leamington, *Sm., Per. Fl.* 4.
6. SOW. Kenilworth, *Y. and B.*
8. ALNE. Marshy ground by Hoo Mill, *Purt.* i. 59. Brook side, near Rowington, *D. Brodie*. Marshy field near Lowson Ford.
9. ARROW. Near Middletown, *Purt.* i. 59.

**V. officinalis, L.** Var. *a. Mikanii* (Wats.).

Syme, E. B. iv. 236. 666.

Native ; woods and moist places. Rare. P. July-August.

First record, Baxter, MS., 1843 ?

1. TAME. Kingsbury.
2. BLYTHE. Earlswood ; Forshaw Heath.
4. AVON. Iolbrook Grange, *Baxter, MS.* Chesterton ! Tachbrook ! *Y. and B.* Near Oakley Wood ; Alveston Pastures.
5. LEAM. Cubbington Wood.
8. ALNE. Near Rowington, *D. Brodie*. Drayton Bushes ; Pinley, 1870.
9. ARROW. Ennister Wood, near Wixford.

Var. *b. sambucifolia*, Auct. Angl. Syme, E. B. iv. 236. 666. Locally common.

1. TAME. In the Garlick Meadows, near Penns Mill, *With. Ed.* 5. ii. 91. Sutton Park ; Middleton Heath ; Kingsbury.
2. BLYTHE. Temple Balsall, *Perry, MS.* Marston Green, *Grove*. Coleshill ; Kenwalsey ; Solihull ; Knowle ; Earlswood.
3. ANKER. Baddesley Ensor ; Bentley Park ; Atherstone ; Grendon ; Burton Hastings ; Austrey.
4. AVON. Oakley Wood ! *Perry, MS.* Warwick, not rare, *Per. Fl.* 4. Alveston Pastures.
5. LEAM. Ufton Wood, *Baynes, MS.* Cubbington.
6. SOW. Near Tile Hill ; Combe Woods.
7. STOUR. Honington, *Newb.*
8. ALNE. Snitterfield, in lanes to Bearley and Wilmcote.
9. ARROW. Oversley Wood ! *Purt.* i. 59. Old Park, near Alcester ; Morton Bagot.
10. CHERWELL. Marshy spinney near Farnborough.

**VALERIANELLA. Hall.**

**V. olitoria, Moench.**

*Lamb's Lettuce.*

Top. Bot. 216. *Purt.* i. 60. (*Valeriana locusta*). Syme, E. B. iv. 240. 669. Native ; banks, walls, and fields. Common and generally distributed. A. May-June.

First known record, Ick, Analyst, 1837, Aston.

**V. Auricula, DC.** Syme, E. B. iv. 241. 157.

Colonist ; cornfields in calcareous soils. Very rare. A. July. First record, the Author, 1877.

4. AVON. Cornfields, bridle road from Red Hill to Binton Village.
8. ALNE. Drayton Bushes, cultivated fields.

**V. dentata, Poll.**

Top. Bot. 217. Syme, E. B. iv. 243, 672.  
 Colonist ; cultivated fields. Local. A. June to September.  
 First record, Bloxam, New Bot. Guide Sup., 1837.

1. TAME. Oscott, *Caswell*.
2. BLYTHE. Near Coleshill Pool ; Packington ; Hill Bickenhill ; Marston Green.
3. ANKER. Hartshill ; field by Hartshill Hayes.
4. AVON. Between Hill Morton and Dunchurch ; cornfields about Rugby, *Blox. N.B.G.S.*, 1837 ; plentiful in cornfields, Blue Boar Lane, *Rugby Sch. Rep.*, 1877. Whitnash Field, *Baynes, MS.* Tachbrook, *Y. and B.* Chesterton ; Moreton Morrell ! *Brom.* Red Hill.
5. LEAM. Harbury, *Y. and B.* Birdingbury, field by the railway station, 1886 ; Tachbrook.
6. SOW. Sow Waste, *Kirk*.
7. STOUR. Lambcote, by the Fosseway, *Newb.*
8. ALNE. Drayton Bushes ; Wilmcote ; Wawen's Moor.
10. CHERWELL. Avon Dassett.

*b. mixta*, Duf. More rare.

2. BLYTHE. Heathy pasture near Coleshill Pool ; cornfields near Bannersley Pool.
3. ANKER. Near Oldbury Fort ; near Atherstone.
4. AVON. Tachbrook, *Y. and B.* Moreton Morrell, *Brom.* Red Hill.
5. LEAM. Ufton, 1888.
6. SOW. Near Tile Hill.
8. ALNE. Drayton Bushes.

[\*\* *Centranthus ruber*, DC. On a wall near Kenilworth Castle. *Kirk, Phyt.* ii. 970. Extinct now. Naturalised on walls, Salford, *Caswell*. Eastgate, Warwick, *Perry*, 1817. A mere straggler from cultivation.]

## ORD. XXXVIII. DIPSACEÆ.

DIPSACUS. *Linn.***D. sylvestris, Huds.** *Wild Teasel.*

Top. Bot. 218. Purt. i. 94. Syme, E. B. iv. 245, 674.  
 Native ; hedges and fields. Local and rare. B. July-August.  
 First record, Perry List, 1817.

2. BLYTHE. Lane from Hampton-in-Arden to Knowle.
3. ANKER. Mancetter ; Atherstone ; Shuttington ; Bramcote ; Austrey.
4. AVON. Between Hatton and Warwick ! *With. Ed.* 7. ii. 217. Salford ! *Caswell*. Kineton ; Alveston ; Binton ; Bidford.
5. LEAM. Itchington ; Ufton ; Radford Semele.
6. SOW. Lanes near Allesley ; Combe Fields.
7. STOUR. Honington ; Idlicote ; Lambcote, *Newb.* Ilmington.
8. ALNE. Bearley ; Little Alne ; Rowington.
9. ARROW. Coughton Mill ; Wixford ; Exhall.
10. CHERWELL. Between Warmington and Avon Dassett.

**D. pilosus, Linn.***Small Teasel. Shepherd's Rod.*

Top. Bot. 219. Purt. i. 94. Syme, E. B. iv. 248. 676.

Native; near streams, damp woods, and hedge banks. Local and rare. B. July to September.

First record, the Countess of Aylesford, Bot. Guide, 1805.

1. TAME. Bourn Brook, Shustoke, *Bree, Mag. Nat. Hist.* iii. 163. Banks of the Bourne, Arley.
2. BLYTHE. Near Coleshill, *Aylesford, B. G.* ii. 633. Banks of the Blythe ! Coleshill, *Bree, Mag. Nat. Hist.* iii. 163.
3. ANKER. Merivale, *Power, MS.*
4. AVON. Emscote, on the road to Lillington, *Per. Fl.* 11. Near the Aqueduct, Emscote, *Perry, MS.* Ashow, *Baynes, MS.* Stoneleigh, *Brom.*
5. LEAM. Offchurch, *Brom.*
6. SOW. Canal bank, near Combe Fields.
7. STOUR. Honington ! *Newb.* Whichford Wood.
8. ALNE. Hedge bank near Yarningale Common.
9. ARROW. Studley Mill; Wixford Lane; Oversley Hill, *Purt.* i. 94. Coughton Court, in abundance, *Blax., N. B. G. S.* 1837.
10. CHERWELL. Farnborough Pool, 1884, in abundance.

**SCABIOSA, Linn.****S. succisa, Linn.***Devil's Bit Scabious.*

Top. Bot. 219. Purt. i. 95. Syme, E. B. iv. 250. 677.

Native; waysides, heathlands, and pastures. Locally common. P. June to September.

First record, *Bree, Mag. Nat. Hist.*, 1828, with white flowers.

1. TAME. Sutton Park; Middleton Heath; Hurley; Fillongley.
2. BLYTHE. Near Hampton-in-Arden, *Grove.* Coleshill; Maxstoke; Solihull; Earlswood; Fulford and Forshaw Heaths; Little Ladbroke.
3. ANKER. Parley Park, near Atherstone; pastures near Fielden Bridge, Atherstone.
4. AVON. Near Rugby, *Rugby Sch. Rep.*, 1878. Lighthorne, *Miss Palmer.* Near Oakley.
5. LEAM. Harbury Heath; near Birdingbury; Bascote.
6. SOW. With white flowers, Allesley, *Bree, Mag. Nat. Hist.*, i. 392. Near Meriden; Sow Waste; canal side, near Ansty.
7. STOUR. On Brailes Hill, 1880, *Newb.* Wolford Heath; Wimpstone Fields; Lower Tysoe.
8. ALNE. Lapworth; Henley-in-Arden; lane from Snitterfield to Wilmcote; Drayton Rough Moors; Yarningale Common.
9. ARROW. Rough Hill and Wire Hill, Sambourn; Ipsley Meadows; Sperrall.
10. CHERWELL. Ratley, Edge Hill.

**S. Columbaria, Linn.***Small Field Scabious.*

Top. Bot. 219. Purt. i. 95. Syme, E. B. iv. 251. 678.

Native; banks and pastures in calcareous soils. Local and rare. P. June to September.

First record, Perry, *MS.*, August 5th, 1835.

4. AVON. Tachbrook, *Y. and B.* Moreton Morrell; Compton Verney!  
*Brom.* Stoneleigh; Ashow; Milverton, *Baynes, MS.* Lighthorne,  
*Miss Palmer.* Edge Hill, near Ratley; Ashorne; Marl Cliff, near  
Bidford; Binton; Bardon Hill.
5. LEAM. Corner of Whitnash Field, Fosseway, leading to Harbury, 1835,  
*Perry, MS.* Stockton, *Y. and B.* Right of road between Bird-  
ingbury and wharf, *Rugby Sch. Rep.*, 1878. Butler's Marston, *Bolton*  
*King.* Roadside from Marton to Princethorpe.
7. STOUR. Lambcote, by the Fosseway, *Newb.* Roadside from Brailes to  
Shipston-on-Stour.
8. ALNE. Between Bearley Cross and Little Alne; bridle road, near Billesley;  
hedge banks, near Drayton Bushes.
10. CHERWELL. Warmingtton, near the church.

**S. arvensis**, *Linn.* *Knautia arvensis*, *Coult.* *Field Scabious.*

Top. Bot. 220. *Purt.* i. 95. *Syme, E. B. iv.* 252. 679.

Native; banks, fields, and pastures. Common and generally distributed. *P.*  
June to September.

First record, *Bree, Mag. Nat. Hist.*, 1828, with white flowers, Allesley.

Var. *integrifolia* occasionally with the type as at Rowington; Long Itching-  
ton, &c.

## ORD. XXXIX. COMPOSITÆ.

### EUPATORIUM. *Linn.*

**E. cannabinum**, *Linn.* *Hemp Agrimony*

Top. Bot. 250. *Purt.* ii. 387. *Syme, E. B. v.* 121. 785.

Native; rivers, streams, and damp woods. Local and rare. *P.* July to  
September.

First record, *Perry List*, 1817.

1. TAME. Erdington, *Grove.* Sutton Park; Middleton; Minworth.
2. BLYTHE. Knowle, *Grove.* Marston Green; Olton Pool; coppice in  
Shelly Lane, and Blythe Bridge, Solihull; Cornets End, near  
Berkswell.
4. AVON. Lane between Pigwells and canal, Warwick, *Perry List*, 1817.  
Lighthorne, *Miss Palmer.* Osier bed, near the Woodloes! *Perry, MS.*  
Red Hill, by the side of the road, *Purt.* ii. 387. Brandon Wood, *Rugby*  
*Sch. Rep.*, 1889. Moreton Morrell, *Brom.* Alveston Pastures; Salford  
Priors; wood, near Red Hill.
5. LEAM. Harbury Heath.
6. SOW. Between Wedgenock Park and Fern Hill, *Perry List*, 1817. Kenil-  
worth, *Brom.*
8. ALNE. Drayton Rough Moors; Henley-in-Arden.
9. ARROW. Oversley, near the bridge, *Purt.* ii. 387.

**SOLIDAGO.** *Linn.***S. Virgaurea,** *Linn.**Golden Rod.*

Top. Bot. 255. Syme, E. B. v. 113. 778.

Native; heathlands and waysides. Local and rare. P. August to October.  
First record, Perry List, 1817.

1. TAME. Lower Whitacre, *Bree, Mag. Nat. Hist.* iii. 346. Sutton Park, and the lanes near to it.
2. BLYTH. Fen End; Knowle, *Grove*. Railway banks between Hampton-in-Arden and Berkswell; lanes near Solihull; lanes near Hockley and Shirley.
4. AVON. Very plentiful on the southern side of Oakley Wood; in a lane leading from Kenilworth to Stoneleigh, *Baynes, MS.* Between Wootton Fields and Stoneleigh, *Perry List*, 1817. Ditch on the right of Blue Boar Lane, rather more than a quarter of a mile from the Avenue Road, *Rugby Sch. Rep.*, 1877.
6. SOW. Kenilworth, *Bree, Mag. Nat. Hist.* iii. 165. Honiley, *Brom.*

**BELLIS.** *Linn.***B. perennis,** *Linn.**The Daisy.*

Top. Bot. 259. Purst. ii. 409. Syme, E. B. v. 104. 772.

Native; pastures, heathlands, and waysides. Common and generally distributed. P. March to October.

First record, Perry, Herb. Perry, 1812, Warwick.

**ERIGERON.** *Linn.***E. acre,** *Linn.**Blue Fleabane.*

Top. Bot. 254. Purst. ii. 396. Syme, E. B. v. 108. 774.

Native; banks and meadows in calcareous and marly soils. Rare. P. July-August.

First record, Bree, Midland Flora, 1817.

4. AVON. Springfield, and Bardon Hill, near Stratford-on-Avon, *Cheshire, Herb. Per.* On railway banks between Brandon and Coventry; Moreton Morrell, *Brom.* Hill Morton Ballast Pits, *Rugby Sch. Rep.*, 1889.
5. LEAM. Fenny Compton, *Beesley*. Whitnash Pastures, *Brom.*
6. SOW. At Allesley and Meriden, *Bree, in Purst.* ii. 396. Willenhall, *Brom.* Near Binley.
8. ALNE. Wootton Wawen; Wilmcote, *Cheshire, Herb. Per.*

**FILAGO.** *Linn.***F. germanica,** *Linn.**Common Cudweed.*

Top. Bot. 253. Purst. ii. 389. Syme, E. B. v. 67. 736.

Native; fields, heaths, waysides. Frequent and generally distributed. A. June to September.

First record, Rugby School Report, 1868, near Rugby.

Very rare in the Anker Valley, and local or rare in that of the Leam.

**F. minima, Fries.** *Slender Cudweed.*

Top. Bot. 253. Syme, E. B. v. 70. 739.

Native; heaths and heathy footways. Rare. A. June to August.

First record, Cross, Herb. Perry, 1845.

2. BLYTHE. Coleshill Pool, 1869; Coleshill Heath; Cornets End, near Berkswell.

6. SOW. Kenilworth Heath, *John Cross, Herb. Per.*

**GNAPHALIUM. Linn.****G. uliginosum, Linn.** *Marsh Cudweed.*

Top. Bot. 253. Purst. ii. 391. Syme, E. B. v. 72. 741.

Native; moist places, woods, fields, waysides, heathlands. Common, and generally distributed. A. June to September.

First record, Rugby School Report, 1868, Rugby.

Var. *b. pilulare* (Wahl.) Very rare.

4. AVON. Chadshunt, *Bolton King.*

**G. sylvaticum, Linn.** *G. rectum, Sm.*

Top. Bot. 253. Purst. ii. 391. Syme, E. B. v. 74. 743.

Native; heathy pastures and waysides. Rare. P. June to August.

First record, Stokes in Withering's Arrangement, 1787.

2. BLYTHE. Packington, *Aylesford, B. G.* 636. Heathy footways near Shirley; heathy pasture, Marston Green; Balsall Common.

3. ANKER. Wolvey Heath, 1835, *Blox., MS.*

4. AVON. Stoneleigh, *Kirk, Herb. Per.* Near Rugby, on the Barby Road, *Baxter, MS.*

6. SOW. Banks of the canal, in the parish of Coseley (Keresley), Warwickshire, *Stokes, With. Ed. 2. ii.* 896. Keresley; Radford, *Kirk, Herb. Per.* Kenilworth, *Y. and B.* Heath at Haseley, *Brom.*

9. ARROW. Ridgeway near Cookhill; between Wixford and Bidford, by the side of the road, *Purst. ii.* 391. Oversley Wood! *Cheshire, Herb. Per.* Spennall Ash.

**INULA. Linn.****\*I. Helenium, Linn.** *Elecampane.*

Purst. ii. 410. Syme, E. B. v. 97. 766.

Alien; fields and woods. Very rare. P. July-August.

First record, Purton, Midland Flora, 1817.

1. TAME. Lower Whitacre, *Bree, Mag. Nat. Hist. iii.* 165.

4. AVON. Near Luddington, *Cheshire, Herb. Per.* Woodloes, *Herb. Per.*

8. ALNE. Grafton, *Purst. ii.* 410.

9. ARROW. Studley, in the Castle field, *Purst. ii.* 410.

**I. Conyza. DC.** *Conyza squarrosa. L.* *Ploughman's Spikenard.*

Top. Bot. 257. Purst. ii. 395. Syme, E. B. v. 99. 767.

Native; dry banks, in marly soils. Local and rare. P. August-September.

First record, Perry List, 1817.

1. TAME. Lane from Shustoke to Maxstoke.
4. AVON. Near Myton ; between Emscote and Leamington, *Perry List*, 1817. Bank between Warwick and Snitterfield, *Brom.* Salford Priors ! *Caswell.* Wellesbourne and Lighthorne, *Bolton King.* Field near Marl Cliff, Bidford.
6. SOW. Kenilworth, *Brom.*
7. STOUR. Whatcote, *Gorle.* Near Barcheston, *Bolton King.* Atherstone-on-Stour.
8. ALNE. Hilly pasture, near Great Alne ; Lapworth Street.
9. ARROW. Spennall Wood, *Slatter.*

### PULICARIA. Gaertn.

**P. dysenterica**, Gaertn. (*Inula dysenterica*, Linn.) *Fleabane.*

Top. Bot. 258. *Purt.* ii. 411. Syme, E. B. v. 102. 770.

Native ; marshes, damp woods, and drains. Common and generally distributed. *P.* July to September.

First record, *Perry*, Herb *Perry*, 1825, near Warwick.

I find this plant is far more common than I thought it was ; it is more or less frequent in every Warwickshire district.

**P. vulgaris**, Gaertn. (*Inula Pulicaria*, Linn.) *Small Fleabane.*

Top. Bot. 259. *Purt.* iii. 65. Syme, E. B. v. 103. 771.

Native ; damp places by roadsides. Very rare. *A.* August-September.

First record, *Withering's Arrangement*, 1801. *Inula cylindrica.*

1. TAME. About Wishaw ; near Coleshill, *With. Ed.* 4. iii. 716.

4. AVON. Hill Morton, near Rugby, *Baxter in Purt.* iii. 65. In a field on this side Myton, brought by *Mr. Tib.*, *Perry, MS.* Myton, Warwick ; *Herb. Per.*, 1834.

[\*\**Xanthium spinosum*, Linn. Casual ; in skin yards, Kenilworth. Occurs year after year, probably brought with foreign skins.]

### BIDENS. Linn.

**B. cernua**, Linn. *Nodding Bur-Marigold.*

Top. Bot. 248. *Purt.* ii. 388. Syme, E. B. v. 93. 763.

Native ; sides of pools ; canals, and ditches. Local and rare. *A.* July to September.

First record, *Perry List*, 1817.

1. TAME. Sutton Park ; Middleton.

2. BLYTHE. Pool near Maxstoke Priory ; canal, near Solihull and Knowle ; near Packington ; Meriden Marsh ; Balsall Street ; Shirley ; pool at Packwood.

4. AVON. River Avon, Wootton Fields, *Perry List*, 1817. Canal near Newbold, *Rugby Sch. Rep.*, 1889. Mill Pool, near St. Nicholas Church, *Per. Fl.* 69. Pond near the Woodloes, 1836, *Perry, MS.* Old Park, Warwick, *Y. and B.* Lighthorne, *Miss Palmer.* Near Bilton Church.

5. LEAM. Small pool, Itchington Holt.

6. SOW. River Sow, Baginton Bridge. *Perry List*, 1817. Pits at Honiley ! and Haseley, *Brom.* Sow Waste ; Rounsel Lane ; Combe Fields.

8. ALNE. Small pool near Billesley Hall ; canal, near Lapworth.
9. ARROW. Oversley ; Sambourn ; Middletown, *Purt.* ii. 389.
10. CHERWELL. Small pool, bridle road from Farnborough to Warmington.

**B. tripartita, Linn.** *Bur-Marigold.*

Top. Bot. 249. *Purt.* ii. 387. Syme, E. B. v. 74. 764.  
Native ; sides of pools, canals, &c. Local. A. July to September.  
First record, Bromwich, about 1853.

1. TAME. Rotton Park Reservoir, *Grove.*
2. BLYTHE. Maxstoke, *Blox.* Canal side, near Olton and Knowle ; small pool near Knowle ; ditch side, near the Box Trees, Hockley ; side of pool, Hampton-in-Arden.
4. AVON. Canal bank, by Barby Road, also in a pond on this side of the canal, *F. E. K., Rugby School Rep.*, 1874. Myton ; Emscote ; pool near St. Nicholas Church, Milverton, *Brom.* Salford ! *Caswell.* Lighthorne ! Chadshunt, *Bolton King.* Canal side, near Stratford-on-Avon.
6. SOW. Pit in Rounsel Lane, near Kenilworth.
7. STOUR. Pool at Whatcote, *Newb.* Pit near White House, Tysoe, 1886.
8. ALNE. Pool near Holywell, Claverdon.
10. CHERWELL. Small pit, near Farnborough, 1886.

Neither of these plants has as yet been recorded from the Anker basin.

**ACHILLEA. Linn.**

**A. Millefolium, Linn.** *Milfoil. Yarrow.*

Top. Bot. 263. *Purt.* ii. 399. Syme, E. B. v. 57. 727.  
Native ; heaths, waysides, pastures, &c. Common, and generally distributed.  
P. June to October.

First record, Brec, Mag. Nat. Hist., 1829. With purple flowers.

The form with purple flowers occurs occasionally on footways in lias and marly soils.

**A. Ptarmica, Linn.** *Sneezewort. Goose-tongue.*

Top. Bot. 263. *Purt.* i. 400. Syme, E. B. v. 59. 730.  
Native ; marshy heaths and damp waysides. Locally common. P. July to September.

First record, Ick, Analyst, 1837.

1. TAME. Saltley and Edgbaston, *Ick, Anal.*, 1837. Hill Hook ; Sutton Park ; Middleton ; Wishaw ; Arley.
2. BLYTHE. Coleshill Pool ; Marston Green ; Bradnock's Marsh ; Solihull ; Knowle ; Balsall Street ; Mere End ; Earlswood, &c.
3. ANKER. Hartshill ; Ryton ; Mancetter.
4. AVON. Chadshunt, *Bolton King.* Lighthorne, *Miss Palmer.* Near Rugby, *Rugby School Rep.*, 1868. Hatton ; Oakley ; Alveston Heath.
5. LEAM. Christmas Hill, near Bishop's Itchington, *Bolton King.*
6. SOW. Red Lane, Kenilworth ; Sow Waste.
8. ALNE. Umberslade, *Grove.* Gannaway Gate ; Yarningale Common ; near Preston Bagot ; Lowson Ford.
9. ARROW. Rough Hill, Sambourn ; pit near Sambourn Village.
10. CHERWELL. Damp waysides, near Warmington ; Farnborough.

**ANTHEMIS.** *Linn.*

**A. Cotula,** *Linn.*      *Stinking May-weed.*      *Mathen.*

Top. Bot. 262. *Purt.* ii. 397. Syme, E. B. v. 49. 720.

Native; cultivated fields and waysides. Common, and generally distributed. A. June to September.

First record, Kirk, Topographical Botany, 1858.

In the Anker district this seems to be a very local plant. I only observed it in one field throughout the district.

**A. arvensis,** *Linn.*      *Corn Chamomile.*

Top. Bot. 261. *Purt.* ii. 397. Syme, E. B. v. 50. 721.

Colonist; cornfields. Rather rare. A. June to October.

First record, Purton, Midland Flora, 1817.

1. TAME. Railway banks, Sutton Park.

2. BLYTHE. Cornfields, Marston Green, 1866; Olton Pool; Eastcote Green; near Meriden Shafts; near Knowle.

4. AVON. Cornfields about Whitnash, *Brom.* Kineton, *Bolton King.*

5. LEAM. Cornfields, Frankton; Harbury Heath.

7. STOUR. Lower Eatington.

9. ARROW. On the Ridgeway, on new made earth mounds, *Purt.* ii. 397. Cornfields by Old Park Wood, near Alcester.

**A. nobilis,** *Linn.*      *Common Chamomile.*

Top. Bot. 261. Syme, E. B. v. 53. 724.

Native; on heathy pastures. Very rare. July.

First record, Bree, Cat. New Botanist's Guide, 1835.

8. ALNE. Shrewley Pool, *Bree.* Yarningale Common, *Brom.*, abundant in 1886.

**CHRYSANTHEMUM.** *Linn.*

**C. segetum,** *Linn.*      *Corn Marigold.*      *Marigold Goldins.*

Top. Bot. 259. *Purt.* ii. 403. Syme, E. B. v. 40. 713.

Colonist; corn and other cultivated fields. Locally common. A. June to September.

First record, Freeman, Phytologist, 1841.

1. TAME. Boldmere, near Sutton; Sutton Park, on railway banks; Middleton Heath.

2. BLYTHE. Packington, *Freeman, Phyt.* i. 262. Coleshill; Marston Green; Bradnock's Marsh; Cornets End, near Berkswell; Bickenhill.

4. AVON. Cornfields, near Bilton, Rugby, 1878; Tachbrook; Heathcote; Leek Wootten.

6. SOW. Cornfields, near Binley; Corley.

7. STOUR. In a field west end of Brailles Hill, *Newb.* Idlicote, *Gorle.* Near Barton-on-the-Heath.

8. ALNE. Cornfields, near Kingswood.

This plant appeared absent from the Anker district in 1885, in which year I made a special search in every part of the district. Purton records this as "common," but I have never noticed it in any part of the Arrow district from whence most of his notes are given.

**C. Leucanthemum, Linn.** *Ox-eye Daisy. Moon-flower.*

Top. Bot. 259. Purst. ii. 402. Syme, E. B. v. 41. 714.  
Native; railway banks, waysides, heath lands, &c. Common, and generally distributed. P. May to August.  
First record, Rugby School Report, 1868, Rugby.

**\*C. Parthenium, Pers.** *Feverfew.*

*Matricaria Parthenium, L.* Top. Bot. 260. Purst. ii. 401. Syme, E. B. v. 43. 715.  
Denizen; banks, walls, and waste places. P. Local. June to September.  
First record, Baxter, MS., 1831.

1. TAME. Lanes near Erdington, 1866.
2. BLYTHE. Near Great Packington; Berkswell; Packwood.
3. ANKER. Near Newton Regis.
4. AVON. Common about Rugby, *Baxter, MS.* Salford Priors! *Caswell.*  
Footway between Overslade and Bilton, *Rugby Sch. Rep.*, 1877.
7. STOUR. Honington; Lambcote, *Newb.*
8. ALNE. Near Lapworth Street; by the Alne, Wootton Wawen.
10. CHERWELL. Banks near Avon Dassett.

**MATRICARIA. Linn.****M. inodora, Linn.** *Chrysanthemum inodorum, L.*

Top. Bot. 260. Purst. ii. 404. Syme, E. B. v. 46. 717.  
Native; fields and waysides. Common, and generally distributed. A. June to October.  
First record, Rugby School Report, 1868, near Rugby.

**M. Chamomilla, Linn.** *Wild Chamomile.*

Top. Bot. 260. Purst. ii. 401. Syme, E. B. v. 48. 719.  
Native or colonist; fields and waysides. Locally common. A. July to September.  
First known record, the Author, about 1866, Erdington.

1. TAME. Middleton; Erdington, 1866.
2. BLYTHE. Coleshill; Hampton-in-Arden; Meriden; Marston Green; Knowle; Barston.
3. ANKER. Shuttington; Austrey; Warton.
4. AVON. Myton; Milverton, *Brom.*
5. LEAM. Cubbington; Radford Semele; Ufton; Harbury.
6. SOW. Footways, Wyken; Ansty; Combe Fields.
7. STOUR. Brailles! *Newb.* Whatcote, *Gorle.* Fields near Great Wolford; Crimsote; Atherstone-on-Stour
8. ALNE. Fields near Claverdon and Bearley.
9. ARROW. Fields by Old Park, near Alcester; Sperrall Ash; Coughton Mill; Sambourn.
10. CHERWELL. Fallow field, near Avon Dassett.

This plant seems to be as truly a native as *M. inodora*, occurring in similar habitats and in equal abundance. In many of the districts quite as abundant on wild roadsides as it is in the fields, and coming up year after year in the same stations.

TANACETUM. *Linn.***T. vulgare**, *Linn.* *Chrysanthemum Tanacetum*, R. *Tansy.*Top. Bot. 260. *Purt.* ii. 392. *Syme*, E. B. v. 44. 716.Native; roadsides and waste places, often near villages. Local and rare. *P.* July-August.First record, *Perry List*, 1817.

2. BLYTHE. *Mercote Hall, Grove.* Stonebridge Road, near Coleshill; lane from Stonebridge to Hampton-in-Arden; Sheldon.
3. ANKER. Abundant Rye Hills; Baddesley Common; neglected waysides near Shuttington Bridge; banks of the Anker, near Anker Bridge.
4. AVON. Churchyard and College walls, Warwick; Hatton Hill, *Perry List*, 1817. Side of the Avon between Nicholas Meadow and the Aqueduct, Warwick, *Per Fl.* 70. Plentiful in a lane called Mary Green, and in hedges near it, at Hill Morton, near Rugby, 1831. About half-a-mile from Rugby on the road to Clifton, *Baxter, B. Ph.* Whitnash; Milverton, *Baynes, MS.* Trent Valley Railway, near Newbold footpath; hedge, Hill Morton Road; between Upper and Lower Hill Morton, *Rugby Sch. Rep.*, 1876; by the canal bridge, Cathiron Lane, near Harborough Magna.
6. SOW. Near Corley, *M. C. Potter.* Banks near Wyken, 1881.
8. ALNE. Roadsides near Rowington, on the way to Warwick, *Perry, MS.* Lapworth Street,
9. ARROW. Oversley. Opposite Alcester Mill, *Purt.* ii. 392. Banks of the Arrow, near Wixford.

In the Rugby School Report for 1875 some of Baxter's old stations are confirmed. It is difficult to decide as to the claim to indigenuity in a plant like this, but it appears to be well established in the Anker basin. In the Blythe district it is probably merely a denizen.

ARTEMISIA. *Linn.***A. vulgaris**, *Linn.* *Mugwort.*Top. Bot. 252. *Purt.* ii. 394. *Syme*, E. B. v. 63. 732.Native; waste heathy places and hedge banks. Frequent, and occurring in all the districts. Local in the Anker basin. *P.* July to September.

First record, Rugby School Report, 1868, Rugby.

Var. *b. coarctata*, *Forcel.*

On hedge banks in marly or Lias soils. Rare.

4. AVON. Abundant at Alveston Pastures, \* 1881.
5. LEAM. Harbury Heath, 1881.
7. STOUR. Near Atherstone-on-Stour, 1886.

\*This is, I believe, the first British station from which this plant was recorded. The late Rev. W. W. Newbould, to whom I sent it, was my authority for the nomenclature. See *Reich., Fl. Germ.*, Tab. 10. 38.

[\*\**A. Absinthium* is recorded from Warwickshire on the authority of Bree, in Top. Bot. 251. I have never seen this plant except as a casual in old gardens.]

## TUSSILAGO. Linn.

**T. Farfara**, Linn.*Common Coltsfoot.*

Top. Bot. 254. Purt. ii. 407. Syme, E. B. v. 115. 780.

Native; railway banks, wayside heaps, and in woods, in marly soils. Very common, and generally distributed. P. February to April.

First record, Perry, Herb. Perry, 1812, Warwick.

## PETASITES. Tourn.

[\*\**P. fragrans*, Presl. Syme, E. B. v. 117. 781.

Alien; banks and quarries. P. March-April.

4. AVON. Canal bank, Warwick; sand quarry, Warwick; near Emscote, *Herb. Per.*]

**P. vulgaris**, Desf.*Butter-bur.*Top. Bot. 254. Purt. ii. 408. (*Tussilago Petasites*, L.). Syme, E. B. v. 119. 783. 784.

Native; river banks and ditches. Local. P. April-May.

First record, Purton, Midland Flora, 1817. *Tussilago hybrida*, L.

2. BLYTHE. Canal siding, near Knowle; near Earlswood.
3. ANKER. Abundant at Wolvey; Wolvers Hill, near Wolvey, and Anker Bridge; roadside, near Warton.
4. AVON. (*Tussilago hybrida*), Bidford, *Bree, Mag. Nat. Hist.* iii. Stoneleigh, *Y. and B.* Salford! *Caswell.* Hill Morton Churchyard; canal side, near Hill Morton, *Rugby Sch. Rep.*, 1876. Leek Wootton; Stratford-on-Avon, *Brom.* Alveston Pastures.
6. SOW. Burton Green, *Y. and B.*
7. STOUR. Honington! *Newb.* Burmington.
8. ALNE. (*Tussilago hybrida*). Hoo Mill, on a willow bed, *Purt.* ii. 408. Claverdon, *Brom.* Wootton Wawen; Great Alne; lane from Yarningale Common to Crab Mill, abundant.
9. ARROW. Ipsley Mill; Coughton and Coughton Field, abundant.
10. CHERWELL. Stream side, near Farnborough Hall.

[\*\**P. albus*, Gaertn.

Syme, E. B. v. 118. 782.

Alien; moist places. Rare. P. April.

3. ANKER. Arbury Hall, naturalised? *Kirk, Herb. Brit. Mus.*
4. AVON. Guy's Cliff! *Brom.*]

## SENECIO. Linn.

**S. vulgaris**, Linn.*Groundsel.*

Top. Bot. 255. Purt. ii. 404. Syme, E. B. v. 80. 749.

Native; cultivated ground and waste places. Very common and generally distributed. A. January to December.

First record, Rugby School Report, 1868, Rugby.

**S. sylvaticus, Linn.***Mountain Groundsel.*

Top. Bot. 255. Purt. ii. 405. Syme, E. B. v. 81. 750. 751.

Native; banks and field borders. Locally common. A. July to September. First record, Perry List, 1817.

1. TAME. Between Birmingham and Erdington! *Perry, List* 1817. Dry banks near Aston, *Ick, Anal.*, 1837. Sutton Park; Middleton Heath.
2. BLYTHE. Marston Green; Hampton-in-Arden; Cornets End, near Berkswell.
3. ANKER. Hartshill; Baddesley Ensor; Alvecote.
4. AVON. Near Rugby, on the road to Clifton; Morton; and Barby, *Baxter, MS.* Near Guy's Cliff; roadside between Leamington and Kenilworth, *Baynes, MS.* Ryton-on-Dunsmore, *Grove.*
6. SOW. Allesley; Hearsal Common, near Coventry; banks near Binley.
7. STOUR. Compton Warren, near Brailes.
8. ALNE. Haywood, *Brom.*
9. ARROW. Alcester Field; between Alcester Lodge and New Inn! *Purt.* ii. 405, abundant in 1886. Near Spennall Ash.

This is an abundant plant in some of the districts near Birmingham, but is apparently very local in the southern part of the county; both forms occur in the county.

[\*\**S. squalidus*, Linn.

Syme, E. B. v. 83. 753.

Casual; old walls, very rare. July-August.

First record, Bree, 1829.

4. AVON. Walls, Guy's Cliff! *Brom.* Hill Morton Ballast Pits, *C. Elsee, Rugby Sch. Rep.*, 1889,
5. LEAM. Railway bank, Fenny Compton, *Bolton King.*
6. SOW. Old walls, Allesley! *Bree.* Allesley Church, Warwickshire, *Syme*, v. 83.]

"Some years since I introduced this plant from Oxford into my garden, whence, by means of its volatile seeds, it has made its escape, and has now, for a long time, voluntarily and firmly established itself on walls and waste banks in this village (Allesley)." — *W. T. Bree, Allesley Rectory*, September 8th, 1829. Note on *Senecio squalidus*, *Mag. Nat. Hist.*, iii. 151.

**S. erueifolius, Linn.**

Top. Bot. 255. Purt. ii. 406. (*S. tenuifolius*, Jacq.) Syme, E. B. v. 84. 754. Native; banks, waysides, and fields. Locally common. P. July to September.

First known record, Dr. Lloyd, *Herb. Bab.*, 1835.

1. TAME. Lanes about Shustoke; rare in the Tame district.
2. BLYTHE. Near Hampton-in-Arden; Shirley Heath.
3. ANKER. Amington; Newton Regis; Austrey; Burton Hastings; Bulkington; Ryton; Hartshill.
4. AVON. On the Lawford, Dunchurch, Barby, and Hill Morton Roads, *Baxter, MS.* Lighthorne, *Miss Palmer.* Banbury Road, near Warwick; near Stratford-on-Avon.
5. LEAM. Harbury Heath! *Dr. Lloyd, Herb. Bab.* Ufton; Bourton.
6. SOW. Lanes near Allesley.

7. STOUR. Lanes about Halford! Whatcote; Lambcote, *Newb.* Lower Eatington; Wimpstone Fields; Ilmington.
8. ALNE. Umlerslade, *Grove.* Gannaway Gate; Bearley; Great Alne.
9. ARROW. Alcester; Wixford.

**S. Jacobæa**, Linn. *Ragwort.*

Top. Bot. 256. *Purt.* ii. 406. Syme, E. B. v. 85. 755.

Native; banks, fields, roadsides. Common, and generally distributed. P. July to September.

First known record, Rugby School Report, 1868.

This is a more frequent plant in the districts drained by the Tame than in those of the Avon basin.

**S. aquaticus**, Huds. *Marsh Ragwort.*

Top. Bot. 256. *Purt.* ii. 407. Syme, E. B. v. 86. 756.

Native; marshes and watery places. Common, and generally distributed. P. July to September.

First record, Baynes MS., Oakley Wood.

Var. *pinnatifidus*, Godr. and Gr., near Burton Green.

**CARLINA**. Linn.

**C. vulgaris**, Linn. *Carlina Thistle.*

Top. Bot. 246. *Purt.* ii. 386. Syme, E. B. v. 21. 698.

Native; heaths, banks, and pastures, in marly or calcareous soils. Rare. B. July-August.

First record, Perry List, 1817.

1. TAME. Hill Hook, near Sutton; marly banks near Arley Village.
4. AVON. Between Leek Wootton Fields and Ashow; Welcombe Hills, near Stratford, *Per. Fl.* 68. Between Warwick and Hatton, *Perry, MS.*, 1824. Green's Grove, Hatton, *Herb. Per.* Wellesbourne Hastings; Light-horne, *Bolton King.* Between Kineton and the Edge Hill.
5. LEAM. Harbury, 1856, *Brom.* Near Birdingbury, *Rugby Sch. Rep.* Frankton Wood. *Rugby Sch. Rep.*, 1889.
7. STOUR. Honington, *Newb.*, 1880. Abundant on Wimpstone Fields, 1886.
8. ALNE. Yarningale Common, abundant, 1870; Copt Green, near Lapworth Street.
9. ARROW. Oversley Hill, *Purt.* ii. 386. Moorland, by Banum's Wood, near Morton Bagot, abundant, 1886.

**ARCTIUM**. Linn.

**A. majus**, Schk. *Great Burdock.*

Top. Bot. 238. Syme, E. B. v. 23. 699.

Native; hedges, roadsides, and woods. Local and rare. B. July to September.

First certain record, Bromwich, about 1868.

1. TAME. Lane from Kingsbury to Kingsbury Wood.
2. BLYTHE. Canal bank, near Knowle; lane by Packwood House, near Lapworth; canal bank, near Three Maypoles, Shirley Heath.

3. ANKER. Caldecote, near the River Anker ; heathland between Shilton and Wolvey, abundant, 1885.
4. AVON. Hatton, *Y. and B.*, 1873. Chesterton ; Myton, *Brom.*, 1868. Alveston Pastures ; Marl Cliff, Bidford ; bridle road, Red Hill to Binton.
5. LEAM. Canal side, near Long Itchington ; Birdingbury Wharf ; Radford Semele ; near Southam ; near Princethorpe ; Ufton.
7. STOUR. Eatington ; abundant in Honington Park ! *Newb.* Lower Brailes ; Wimpstone Fields.
8. ALNE. Umberslade ; Lapworth ; near Kingswood ; Great Alne ; Bearley ; Little Alne ; Holywell, near Billesley.
9. ARROW. Coughton Mill ; Sperrall.
10. CHERWELL. Near Avon Dassett, 1889.

### **A. nemorosum, Lej.**

Syme, E. B. v. 25. 701.

Native ; woods, hedge. Rare. B. July to September.

First record, F. Townsend, Bot. Exch. Club Rep., 1872.

5. LEAM. Near Willoughby and near Flecknoe.
7. STOUR. Damp woods, Honington, Warwickshire, August, 1872, *F. Townsend*. "Mr. Townsend states that this is abundant near Honington, and pointed it out to me in a small coppice near Honington Hall." *Rev. W. W. Newbould in Litt.* Abundant in a hedge near Lambcote, *Newb.* Road from Stratford-on-Avon to Shipston ; near Atherstone-on-Stour.
8. ALNE. What appears to be this sub-species on a hilly pasture near Great Alne.

### **A. minus, Schk. Burdock.**

Syme, E. B. v. 24. 702.

Native ; by roadsides, banks, meadows, and woods. Rather local. B. July to September.

First record, Kirk, *Herb. Bab.*, 1854.

1. TAME. Erdington ; Sutton Park ; Trichley Coppice ; Hurley ; near Kingsbury Wood.
2. BLYTHE. Marston Green ; Maxstoke ; Meriden Shafts ; Solihull ; Knowle ; Great Packington.
3. ANKER. Bentley Park ; Grendon ; Caldecote.
4. AVON. Stoneleigh Wood, 1854, *Kirk, Herb. Bab.* Warwick ; Chesterton, *Y. and B.* Woodloes, *Brom.* Oakley ; Hatton ; Bidford ; Alveston Pastures.
5. LEAM. Birdingbury Wharf ; Willoughby ; Cubbington ; Itchington Holt ; Ufton.
6. SOW. Combe Woods.
7. STOUR. Honington ! *Newb.* Wimpstone Fields ; Atherstone-on-Stour ; Whichford Wood.
8. ALNE. Rowington ; Austey Wood ; Wootton Wawen ; Great Alne ; near Wilmcote ; Wawen's Moor ; Yarningale Common.
9. ARROW. Oversley Wood ; Coughton.
10. CHERWELL. Near Farnborough.

### **A. intermedium, Lange.**

Syme, E. B. v. 25. 700.

Native ; woods, quarries, roadsides. Local. B. July to September.

First record, Cheshire, *Herb. Perry*, 1850.

1. TAME. Trickle Coppice.
2. BLYTHE. Quarry near Meriden Shafts.
3. ANKER. Merivale Park; near Birch Coppice; near Newton Regis.
4. AVON. Moreton Morrell, *Y. and B.* Emscote, *Brom.* Alveston Pastures; between Hutton and Warwick Main Road; near Red Hill.
5. LEAM. Ufton, *Brom.* Itchington Holt; near Stockton; Frankton Wood; Birdingbury Wharf; Princethorpe.
6. SOW. Combe Woods.
7. STOUR. "Damp woods, Honington! Warwickshire, 1872, *Fred Townsend.* I do not pretend to know *A. nemorosum.* Prof. Babington, to whom I sent a specimen, says he thinks it is *A. minus (eu-minus)*, but the specimen appeared to be a side branch, and was not enough to be sure of the name. *J. Boswell, 1875.* *Exch. Club Report, 1872-4, page 27.* Wimpstone Fields; Brailes.
8. ALNE. Snitterfield, *Cheshire, Herb. Per.* Great Alne; Bearley Cross; Haywood.

CARDUUS. *Linn.**C. nutans, Linn.**Musk Thistle. Nodding Thistle.*Top. Bot. 241. *Purt. ii.* 379. Syme, E. B. v. 7. 683.

Native; heaths, banks, and fields. Locally common. B. May to August.

First record, Perry List, 1817.

1. TAME. Banks at Aston and Nechells Green, *Ich, Anal., 1837.* Field by Saltley Tollgate, 1867, *Grove.* Sutton Park; Middleton Heath; Kingsbury; Hurley; Shustoke.
  2. BLYTHE. Coleshill Heath; Hampton-in-Arden; Shirley Heath.
  3. ANKER. Hartshill.
  4. AVON. Red Hill, *Purt. ii.* 379. On the road from Stratford to Warwick, *Per. Fl.* 67. Near the sand rock at Woodloes, 1824; in a field above the Scar, Hampton Lucy, 1828; Windmill Hill, Chesterton! 1835, *Perry, MS.* Emscote, *Y. and B.* Wasperton! *Brom.* Lighthorne, *Miss Palmer.* Edge Hill; Morton Hill, near Harbury; Alveston Pastures; near Kineton.
  5. LEAM. Between Flecknoe and Willoughby; Snowford Bridge.
  6. SOW. Sow Waste.
  7. STOUR. Near White House, Tysoe, 1886; Compton Warren; Lower Tysoe.
  8. ALNE. Grafton! amongst the quarries of limestone. *Purt. ii.* 379. Near Great Alne.
10. CHERWELL. Neglected field near Avon Dassett; Ratley, Edge Hill.

*C. crispus, L.**Wetted Thistle. Thistle-upon-Thistle.*Top Bot. 242. *C. polyacanthos, Curt.* *Purt. ii.* 380. Syme, E. B. v. 7. 684.

Native; woods, banks, and pastures. Locally common. A. or B. July to September.

First record, Perry, MS., *C. acanthoides, L.*, near Hampton Lucy, 1828.

1. TAME. Four Oaks, near Sutton; lane, Shustoke to Maxstoke.
2. BLYTHE. Maxstoke; fields near Coleshill Church; Coleshill Heath; Temple Balsall; Fulford Heath, near Earlswood.
3. ANKER. Caldecote, near the Anker.
4. AVON. Rugby, *Baxter, MS.* Wootton; Barford, *Y. and B.* Edge Hill; Bardon Hill; Stratford-on-Avon; Temple Grafton.

5. LEAM. Willoughby; Frankton; Birdingbury; Ufton; Harbury; the white variety, *flore-albo*, at Fenny Compton, near the railway.
6. SOW. Near Pedlar's Bridge, Brinklow; Shilton; Combe Fields; Binley Common.
7. STOUR. Honington; Halford! Shipston-on-Stour! *Newb.* Abundant Oxhill to Brailes; Ilmington; Burmington.
8. ALNE. Drayton Bushes; Great Alne.
9. ARROW. Oversley Wood; fields between Oversley and Arrow; banks, Arrow Lane; Coughton; Spennall.
10. CHERWELL. Farnborough, both ordinary form and var. *flore-albo*. War-  
mington; Avon Dassett.

Var. *acanthoides*, Linn. Rare.

4. AVON. On the top of the hill above the bank croft, Hampton Lucy, 1828, *Perry, MS.* Chesterton Wood, *Perry, Herb. Per.*, 1855. Near Kineton; Salford.
5. LEAM. With the type, lane from Flecknoe to Willoughby; near Southam, on the road to Leamington.
6. SOW. Shilton, near Coventry; Combe Fields.
8. ALNE. Pea field, Drayton Bushes; near Temple Grafton.
10. CHERWELL. Near Farnborough Village.

The two forms *C. crispus* and *C. polyanthemus*, Koch, are so nearly allied that I have not separated them; but *C. polyanthemus* appears to be more prevalent in the calcareous districts than in the sandstone districts; this appears to be the *C. litigiousus*, Godr. and Gr.

#### CNICUS. Linn., Sm.

**C. lanceolatus**, Hoffm. *Carduus lanceolatus*, L. *Spear Thistle.*

Top. Bot. 242. Purt. ii. 378. Syme, E. B. v. 10. 686.

Native; woods, pastures, heaths, &c. Very common, and generally distributed.

B. July to October.

First record, Bree, Mag. Nat. Hist., with white flowers, at Allesley, 1829.

**C. eriophorus**, Hoffm. *Carduus eriophorus*, L. *Woolly-headed Thistle.*  
*Globe Thistle.*

Top. Bot. 243. Purt. ii. 380. Syme, E. B. v. 11. 687.

Native; waysides and meadows, in calcareous soils. P. Local and rare.

July to September.

First record, Perry List, 1817.

4. AVON. On the hill above the bank croft, Hampton Lucy, 1828; Scar, Hampton Lucy, 1833, *Perry, MS.* On the road from Warwick to Stratford, at the turn to Snitterfield; between Hatton and Stank Hill, *Perry List*, 1817. Chesterton! *Y. and B.* In the Newbold Road, by the river, *Blox, N.B.G.S.*, 1837. Near Holbrook Grange, *Baxter, MS.* Cathiron Lane, by the old canal! *Blox., R.S.R.*, 1874. Near Whitnash, 1837, *Baynes, MS.* Binton! *Per. Fl.* 67. Lighthorne, *Miss Palmer.* Edge Hill; Moreton Morrell; near Easington, on the road for Stratford; Marl Cliff, Bidford; Bardon Hill.
5. LEAM. On the road from Harbury to Tachbrook, *Per. Fl.* 67. On the descent of the hill from Radford to Ufton, 1833, *Baynes, MS.* Near Birdingbury Station, *Rugby School Rep.*, 1868! abundant 1886. Frankton Wood, *Rugby Sch. Rep.*, 1889.

6. SOW. Allesley, &c., *Bree, Mag. Nat. Hist.* iii. 166.
7. STOUR. Honington, near Sherrington Hall, *Newb.* Near the Four-shire Stone, Wolford Heath; Wimpstone Fields; Long Compton; Whitehouse, near Tysoe.
8. ALNE. Lane from Bearley Cross to Little Alne; Billesley; Drayton Bushes; Great Alne.
9. ARROW. Oversley Hill, *Per. Fl.* 67. Alcester; Iron Cross, near Dunnington.
10. CHERWELL. Ratley, Edge Hill.

**C. palustris, Hoffm.** *Carduus palustris*, Linn. *Marsh Thistle.*

Top. Bot. 243. Purt. ii. 380. Syme, E. B. v. 12. 688.

Native; marshes, damp woods, and roadsides. Common, and generally distributed. A. or B. June to September.

First record, Bree, *Mag. Nat. Hist.*, with white flowers, at Allesley, 1829.

The form, with white flowers, is not infrequent with the type.

**C. pratensis, Willd.** *Meadow Thistle.*

Top. Bot. 243. Syme, E. B. v. 14. 690.

Native; marshes and damp meadows. Very local. P. June to August.

First record, Countess of Aylesford, Bot. Guide, 1805.

1. TAME. Sutton Park, both the form with pinnatifid lobed leaves and the form with entire leaves.
2. BLYTHE. Packington, *Aylesford, B. G.* 636. Bog below Coleshill Pool! *Bree, Mag. Nat. Hist.* iii. 165. Balsall Temple, 1839, *Perry, MS.* Near Wroxall, *Bree.* Coleshill, *Freeman, Phyt.* i. 262. Coleshill Pool; Olton Pool; meadows by School Rough, Marston Green, the entire leaved form.
3. ANKER. Merivale! *Power, MS.*
4. AVON. Whitnash, near Moreton Morrell, *Brom.*
5. LEAM. Meadow between Offchurch and Bascote Heath, 1832, *Baynes, MS.*
6. SOW. The Oaks Farm, Kenilworth, *Brom.*
8. ALNE. Baddesley Clinton, *Brom.* Marshy field near Lowson Ford.
9. ARROW. Morton Bagot, *Slatter.*

**\*C. heterophyllus, Willd.**

Syme, E. B. v. 15. 691.

Ambiguity; damp meadows. Very rare.

3. ANKER. Damp meadows, Merivale, *J. Power, MS. note in Botanist's Guide.* This is probably a mistake, some form of *C. pratensis* having been thus named.

**C. acaulis, Hoffm.** *Carduus acaulis*, L. *Dwarf Thistle.*

Top. Bot. 244. Purt. ii. 382. Syme, E. B. v. 17. 692. 692 bis.

Native; pastures, waysides, rubbish heaps in calcareous soils. Local and rare. P. July to September.

First record, Perry List, 1817.

4. AVON. Opposite Moor Hall, on the Bidford Road, and between this place and Red Hill, on the hedge bank, *Purt.* ii. 383. Between Rugby and Avon, on footpath to Lawford, *Baxter, MS.* Chesterton; Tachbrook, *Y. and B.* A white variety, and the caulescent form, at Chadshunt, *Bolton King.* Moreton Morrell; Hatton, *Brom.* By Chesterton Windmill, and the caulescent form; Bardon Hill.
5. LEAM. Harbury, caulescent form, *Her. Per., Kirk.* Near Birdingbury Wharf! *Rugby Sch. Rep.*, 1874. Lime heaps, Lawford Fields, *Rugby Sch. Rep.*, 1878. Itchington Holt, caulescent form and type; footway Draycote to Birdingbury, both forms, 1886.
6. SOW. Rough pasture, Rounsel Lane, Kenilworth; Beausale, *Brom.*
7. STOUR. Long Compton Hill, *Perry List*, 1817. Honington Park! *Newb.* Abundant on gorsy meadow, near the White House, Tysoe, 1886; abundant, Wimpstone Fields, 1886; pastures near Whatcote.
8. ALNE. Norton Lindsay, *Perry, MS.* Bearley, *Grove.* Yarningale Common, with caulescent form, 1872.

**C. arvensis**, *Hoffm.* *Serratula arvensis*, L. *Carduus arvensis*, Curt.  
*Common Thistle. Way Thistle.*

Top. Bot. 243. *Purt.* ii. 384. Syme, E. B. v. 17. 693. 694.

Native; woods, pastures, waysides, &c. Very common, and generally distributed. P. July to September.

First record, Bree, *Mag. Nat. Hist.*, 1829, with white flowers, at Allesley.

The form with white flowers is found occasionally with the type.

Var. *setosus* (Bess.). One patch in a field at Myton. This field is now a potato garden, *Brom.*

### Hybridi.

2. BLYTHE. A hybrid between *C. crispus* and *C. nutans* occurred in fields near Coleshill and on banks near Shustoke.
4. AVON. A hybrid between *C. palustris* and *C. arvensis*, in a cornfield at Myton, *Brom.*

### ONOPORDON. Linn.

**O. Acanthium**, Linn. *Cotton Thistle. Argentine.*

Top. Bot. 245. *Purt.* ii. 384. Syme, E. B. v. 2. 680.

Alien or denizen; hedge banks and waste places. Rare. B. July to September.

First record, Purton, Midland Flora, 1817.

4. AVON. Bidford, *Purt.* ii. 385. Near the Old Pound, Coton End, Warwick; in a lane leading from Emscote to Nicholas Meadow, Warwick, *Per. Fl.* 68. Woodloes, *Herb. Per.* At the Scar, near Hampton Lucy! *Perry, MS.* Near Alveston Pastures.
5. LEAM. Offchurch, *Brom.*
6. SOW. Ansty, *Adams.*
8. ALNE. Temple Grafton.
9. ARROW. Broom, *Purt.* ii. 385.

Mr. Newbould reports the plant from Tredington, in the Stour basin. This is just outside Warwickshire.

**SILYBUM.** *Gaertn.*

[\*\* *S. Marianum*, Gaertn. *Carduus Marianus*, L. *Milk Thistle*.

Purt. ii. 381. Syme, E. B. v. 4. 681.

Casual; ditch banks, roadsides, on rubbish. Rare. B. May-June.

First record, Perry List, 1817, *Carduus Marianus*, L.

4. AVON. Racecourse, Warwick, *Perry List*, 1817. Hedge bank on the north side of the Common, Warwick; in a lane leading from Nicholas Meadow, Warwick, to Emscote Road; and in the Saltisford Brickyard, Warwick, *Per. Fl.* 67. At the Scar, near Hampton Lucy, 1828; Milverton Green, 1833, *Perry, MS.* Chesterton, *Y. and B.* Chesterton Windmill, *Brom.*
9. ARROW. Alcester; Coughton, *Purt.* ii. 382.]

This cannot be considered as other than a straggler from cultivation.

**SERRATULA.** *Linn.*

**S. tinctoria**, *Linn.*

*Saw-wort.*

Top. Bot. 240. Purt. ii. 383. Syme, E. B. v. 28. 704.

Native; woods, pastures, and hedges. Local. P. July-August.

First record, Bree, *Mag. Nat. Hist.*, 1829, with white flowers.

1. TAME. Water Orton, *Grove*. Sutton Park, by Four Oaks Park wall, 1889; Arley.
2. BLYTHE. With white flowers, Coleshill Pool, *Bree, Mag. Nat. Hist.*, 393. Canal, near Earlswood, *W. H. Wilkinson*. Near Olton Pool; Blythe Bridge, Solihull; Ryton End, near Hampton-in-Arden; near Rotherham Oak, Waring's Green; Windmill Naps, Little Ladbroke.
3. ANKER. Bentley Park; Atherstone Outwoods, a dwarf form; road from Seckington to Bramcote.
4. AVON. Hatton; *Y. and B.* Salford Priors, *Caswell*. Near Rugby, *Blox.* Walton, *Miss Palmer*. Canal embankment, near Brinklow Station, *Rugby Sch. Rep.*, 1876.
5. LEAM. Road from Tachbrook to Harbury, *Herb. Bab.* Flecknoe, near Rugby; Ufton Wood.
6. SOW. Beausale, *Y. and B.* Tile Hill; Combe Woods.
7. STOUR. Road from Brailes to Shipston-on-Stour.
8. ALNE. Umberslade, *Grove*. Yarningale Common; Grove Park.
9. ARROW. Speynall; Rough Hill, Sambourn.

**CENTAUREA.** *Linn.*

**C. nigra**, *Linn.*

*Hard-heads. Black Knapweed.*

Top. Bot. 247. Purt. ii. 414. Syme, E. B. v. 31. 706.

Native; heaths, pastures, waysides, banks. Common, and generally distributed. P. June to September.

First record, Rugby School Report, 1868, Rugby.

Forma *radiata*. Rare and local.

2. BLYTHE. Near Solihull.
4. AVON. Myton; Hatton! *Y. and B.* Railway bank, Hill Wootton, *Brom.* Between Stratford-on-Avon and Red Hill; Alveston Pastures.
5. LEAM. Near Ufton! *Bolton King*. Harbury Heath.

7. STOUR. Form with all the flowers elongate, near Tile Mill, Honington, *Newb.* Between Atherstone-on-Stour and Stratford-on-Avon.
8. ALNE. Near Tanworth; Great Alne; Little Alne; Henley-in-Arden; Lapworth Street.
9. ARROW. Sperrall; Arrow Lane, near Alcester; Oversley; Exhall.
10. CHERWELL. Waysides near Wormleighton Canal.

This form is absent from both Tame and Anker basins. It is a form liable to be mistaken for the var. *b. decipiens*, from which it appears to be as distinct as from the ordinary form, var. *a.*

**C. Scabiosa, Linn.** *Matfellow. Great Knapweed.*

Top. Bot. 247. Purt. ii. 414. Syme, E. B. v. 33. 708.

First record, Lobel, *Adversaria*. *Jacea maior in Anglia segetibus Coventriae conterminus abunde provenit*, p. 234.

Native; banks, waysides, and pastures. Local. P. June to September.

2. BLYTHE. Balsall Common, *Brom.* Lanes about Knowle; Earlswood.
3. ANKER. Hartshill.
4. AVON. Blacklow Hill, *Perry List*, 1817. Salford! *Caswell*. Myton; Chesterton! *Brom.* Side of footpath from Newton to Watling Street; sandpit opposite Cave's Inn on the Watling Street, *Rugby Sch. Rep.*, 1876. Plentiful near Stratford-on-Avon; near Bidford; Binton; Ashorne; Edge Hill.
5. LEAM. Tachbrook, *Brom.* Southam Road, Harbury; Ufton.
6. SOW. Coventry, *Lobel*.
7. STOUR. Halford! Honington; Lambcote, *Newb.* Great Wolford; Tysoe; Atherstone-on-Stour.
8. ALNE. Temple Grafton; Wawen's Moor.
9. ARROW. Near Exhall and Wixford.
10. CHERWELL. Warmington; Avon Dassett; Ratley, Edge Hill.

**C. Cyanus, Linn.** *Common Blue-bottle. Corn-flower.*

Top. Bot. 247. Purt. ii. 413. Syme, E. B. v. 34. 709.

Colonist; cornfields, meadows, railway banks. Local. A. June to September.

First record, Rugby School Report, 1868, near Rugby.

1. TAME. Cornfields, Witton; Maney; Middleton Heath.
2. BLYTHE. Railway banks, near Knowle Railway Station.
4. AVON. Stoneleigh; Warwick, *Y. and B.* Abundant on railway banks, near Warwick, *Brom.* Occasional in cornfields, chiefly those beyond Bilton and about the Blue Boar Lane, *Rugby Sch. Rep.*, 1876. Salford, *Caswell*. Alveston Heath.
9. ARROW. Exhall; Wixford.

[\*\* *C. solstitialis*, Linn. *St. Barnaby's Thistle.*

Syme, 38. 712.

Casual; abundant on mud dredged from the canal, at Myton, near Warwick! *Brom.*]

## CICHORIUM. Linn.

## C. Intybus, Linn.

*Wild Succory. Wild Endive.*

Top. Bot. 237. Purt. ii. 373. Syme, E. B. v. 122. 786.

Native; fields and waysides in calcareous soils. Rare and local. P. July to September.

First record, Withering's Arrangement, 1801.

1. TAME. A casual on railway bank, Sutton Park, 1876.
2. BLYTHE. Casual on allotments, Siden Hill, Hampton-in-Arden.
3. ANKER. Tamworth Castle, *With. Ed.* 4. iii. 855.
4. AVON. Between Warwick and Stratford, *Perry, List*, 1817. Browns-over, near Rugby, *Blox.* Lawford Fields, by Lime Works; roadside between Newbold and Harborough, *Rugby Sch. Rep.*, 1874-76; Red Hill; between Stratford and Alveston! *Perry, MS.*, 1841. Whitnash, *Baynes, MS.* Lighthorne, *Miss Palmer.* Moreton Morrell; between Stratford-on-Avon and Bidford; Marl Cliff, near Bidford; field near Kineton, abundant.
5. LEAM. On the road from Tachbrook to Harbury, *Per. Fl.* 67. Birdingbury! *Brom.* Bascote Heath, *Baynes, MS.*
7. STOUR. Waste piece near Ilmington, 1886.
8. ALNE. Temple Grafton.
9. ARROW. Exhall; Wixford.

## LAPSANA. Linn.

## L. communis, Linn.

*Nipplewort.*

Top. Bot. 237. Purt. ii. 370. Syme, E. B. v. 125. 787.

Native; hedge banks, waysides, fields, &amp;c. Common and generally distributed. A, June to August.

First record, Rugby School Report, 1868, near Rugby.

## PICRIS. Linn.

## P. hieracioides, Linn.

*Yellow Succory. Hawkweed Ox-tongue.*

Top. Bot. 222. Purt. ii. 375. Syme, E. B. v. 136. 796.

Native; waysides, fields, and banks in calcareous soils. Rare and local. P. June to October.

First record, Bloxam, MS. note in Purton's Midland Flora.

2. BLYTHE. Barston; railway banks between Solihull and Knowle.
4. AVON. Lawford Road, near Rugby, *Blox., MS.* Near Harborough Magna, *Blox. in Litt.* Lillington; Whitnash, *Y. and B.* Lighthorne, *Miss Palmer.* Binton; Bidford; Alveston.
5. LEAM. Near Birdingbury Wharf! *Trott.* Ufton! *Bolton King.* Canal siding near Long Itchington.
7. STOUR. Lanes about Halford! Lambcote; Honington, *Newb.* Whatcote, *Gorle.*
8. ALNE. Bearley; Wilmcote; Billesley; Drayton Bushes.
9. ARROW. Exhall, near Alcester.

P. echioides, Linn. *Helminthia echioides*, Gaert.*Ox-tongue.*

Top. Bot. 221. Purt. ii. 374. Syme, E. B. v. 137. 797.

Native; waysides, field borders, quarries, &amp;c., in calcareous soils. Rare and local. B. July to September.

First record, Bree, MS. Top. Bot. Date unknown.

4. AVON. Whitnash; Chesterton! *Brom.* Kineton! *Bolton King.* Right side of the Lawford Road, close to the Victoria Lime Works, *Rugby Sch. Rep.*, 1876. Salford Priors, *Caswell.* Lighthorne, *Miss Palmer.* Quarries near Binton Bridges; quarry near Bidford; fields near Alves-ton Pastures; Pillerton Priors.
5. LEAM. Itchington Holt.
7. STOUR. Honington, *Newb.* Easington, *Miss Palmer.* Wimpstone Fields.
8. ALNE. Wilmcote, *Grove.* Hilly pasture, Wawen's Moor, near Henley-in-Arden; Drayton Bushes; Billesley; Bishop-ton.
9. ARROW. Quarry near Exhall.

**CREPIS.** *Linn.*

**C. taraxacifolia,** *Thuill.*

Syme, E. B. v. 159. 816.

Native; fields. Very rare, or overlooked. A. or B. July-August.  
First record, the Author.

4. AVON. Edge Hill, June, 1884.

[\*\* *C. setosa*, Hall, fil. Syme, E. B. v. 159. 817.

Casual; in cultivated land. Rare. August.

4. AVON. Clover field, Woodloes, Warwick; cornfields, Myton, Warwick, *Brom.*]

**C. virens,** *Linn.*

*Smooth Hawk's Beard.*

Top. Bot. 227. Syme, E. B. v. 160. 818. *Crepis tectorum*, L. (Curt.)  
Purt. ii. 375.

Native; banks, waysides, pastures. Common, and generally distributed. B.  
June to October.

First record, Perry, Mag. Nat. Hist., 1829. *Crepis tectorum*, "with a flat stem  
and crowded panicle, with a broad, flat terminal flower, near Warwick."

The large variety which Mr. Newbould considered to be *C. agrestis*, Kit., is more abundant in marly and calcareous soils; the smaller more branched variety occurs throughout the county, and is the common form in the sandstone districts.

**C. biennis,** *Linn.*

*Large Rough Hawkweed.*

Top. Bot. 227. Syme, E. B. v. 161. 819.

Colonist; cornfields and banks. Rare. June to August.

First record, Bromwich, Sp. Topographical Botany, Ed. 1.

4. AVON. Hill Wootton, on the railway bank! *Brom.* Cornfield, near Binton Bridges; Edge Hill.

5. LEAM. Harbury; Southam Holt.

The *agrestis* form of *C. virens* is liable to be mistaken for this, unless carefully examined.

**C. paludosa,** *Moench.*

*Marsh Hawk's Beard.*

Top. Bot. 228. Syme, E. B. v. 163. 821.

Native; marshy woods. Very rare. P. July-August.

First record, the Author, 1866. Flora of Sutton Park, 1876.

## 1. TAME. Sutton Park, 1866.

Abundant in this place when I first found it in 1866, but very thinly scattered in 1882.

## HIERACIUM. Linn.

## H. Pilosella, Linn.

Mouse-ear Hawkweed.

Top. Bot. 229. Purton. ii. 367. Syme, E. B. v. 165. 822.

Native; banks, waysides, and heathlands. Common, and generally distributed. P. May to August.

First record, Rugby School Report, 1868, near Rugby.

## \*H. murorum, Linn.

Wall Hawkweed.

Golden Lung Wort.

"Old walls, woods, and shady banks. P. July. Rare. On the bank by the side of the turnpike road at Marsom's Gate; Oversley Wood, &c.,"  
Purt. Mid. Flora, vol. ii. 369. On a bank at Haseley Common, Baynes,  
Perry, MS. Mr. Perry adds, "I have seen this."

The description given in the Midland Flora is not that of *H. murorum*, and the Tab. 2086 of English Botany, which is quoted by Purton as representing his plant, belongs to *H. caesium*, with which his description scarcely agrees. I think Purton's plant was probably *H. vulgatum*, Fr. This occurs sparingly in Oversley Wood, and is not recorded by Purton in "The Midland Flora."

## H. vulgatum, Fr.

Wood Hawkweed.

Top. Bot. 231. Syme, E. B. v. 197. 850.

Native; woods, banks, wall tops. Local. P. June to August.

First record, Perry, Plantæ Selectæ, 1820.

1. TAME. Sutton Park; Middleton Heath; Kingsbury Woods; Arley.
2. BLYTHE. Banks near Berkswell! Kirk, Phyt. ii. 971. Marston Green; Hampton-in-Arden; Solihull; Shirley; Earlswood; Forshaw Heath.
3. ANKER. On walls and banks at Arbury Hall! Kirk, Phyt. ii. 971. Bentley Park; Mancetter; Ryton; near Bedworth.
4. AVON. Walls in Warwick, Per. Fl. 66. Rugby and Dunchurch road, near the tollgate! Blox., N. B. G. S., 1837. Lower Hill Morton Road, Blox., MS. Chesterton Wood, Miss Palmer.
5. LEAM. Itchington Holt; near Princethorpe; Offchurch Heath.
6. SOW. Kenilworth Castle walls, 1830, Perry, MS. On walls near the Charter House, Coventry; Keresley, Kirk, Phyt. ii. 971. Near Stoke; Corley.
7. STOUR. Compton Warren, near Brailes; wood near White House, Tysoe.
8. ALNE. Lanes about Lapworth.
9. ARROW. Oversley Wood.

## H. maculatum, Auct.

Syme, E. B. v. 195. 849.

Alien? old walls and banks. Rare. P. July,

First record, Kirk, Phyt., 1843. *H. sylvaticum* c. *pictum*.

3. ANKER. Near Arbury Hall, Kirk, Phyt. ii. 974. "I have received it from Arbury Hall, collected by Mr. Kirk." Syme, E. B. v. 195. 849.
4. AVON. Hill Wootton, railway bank, Brom., Herb. Brit. Mus. Old walls, Warwick! Brom.

I have never seen Kirk's plant, but the plants pointed out to me on the old walls, Warwick, seem to be merely *H. vulgatum*, with spotted leaves. A similar variety occurs in the grounds at Hampton-in-Arden.

***H. tridentatum*, Fr.**

Top. Bot. 234. Syme, E. B., 201. 852.  
Native; quarries, ruins, and woods. Rare. P. June to August.  
First record, Bloxam, Sp. Top Bot. Ed. 1. p. 222.

3. ANKER. Bentley Park; Old Abbey ruins, near Nuneaton; quarries, Hartshill.
7. STOUR. Compton Warren, near Brailles.
9. ARROW. Sambourn Lane, near Coughton.

***H. umbellatum*, Linn.**

Top. Bot. 234. Purst. ii. 369. Syme, E. B., v. 202. 853.  
Native; dry banks and heathlands. Local and rare. P. July to September.  
First record, Perry, List, 1817.

1. TAME. Abundant in lane leading from Beehive Tavern to Golden Cross, at Aston, *ICK*, 1838. Hams Hall, *Grove*. Sutton Park; Middleton Heath; lanes about Walmley.
2. BLYTHE. Bog at Coleshill Pool! *Bree in Purst.* iii. 375. Coleshill Heath! *Bree, Mag. Nat. Hist.* iii. 165. Lanes near Solihull.
3. ANKER. Rare, heathy waysides, road from Burton Hastings to Watling Street; near Austrey.
4. AVON. St. Mary's Churchyard wall, and Castle wall, in Vineyard Lane, Warwick, *Perry, List*, 1817. On the walls at Warwick Castle! *Purst.* ii. 369. Abundant about Rugby, especially beyond the Workhouse, on the lower great road to Hill Morton; on the Barby Road, near Hill Morton House; on Jarrat's Heath, and all along the Dunchurch Road, from thence to the Cock and Robin public house, &c., *Baxter*. Plentiful in this district in 1880.
5. LEAM. Harbury Heath.
7. STOUR. Compton Warren, near Brailles.

The plants growing on Coleshill Heath and at Harbury Heath have very narrow, entire leaves, with slightly recurved margins, but do not appear in any other respect to differ from the ordinary *H. umbellatum*. Probably overlooked in district 6.

***H. boreale*, Fries.**

Top. Bot. 235. Purst. ii. 368. Syme, E. B. v. 205. 854.  
Native; woods, heaths, and banks. Local. P. July to October.  
First record. Purton, Midland Flora, 1817. *Hieracium sabaudum*, Sm.

1. TAME. Bordesley Green, *ICK, Anal.*, 1837. Sutton Park; Middleton; Kingsbury Woods.
2. BLYTHE. Lanes about Hampton-in-Arden; Knowle and Solihull; Shirley Heath.
3. ANKER. Bentley Park; Hartshill, rare in this district.
4. AVON. Hatton Wood, *Per. Fl.* 66. Oakley Wood, 1831, *Baynes, MS.* On Stair Bridge (Stoneleigh). *Kirk, Phyt.* ii. 970. Near Rugby! *Cumming*. Near Dunchurch Toll Bar! *Trott*. Lighthorne, *Miss Palmer*. Lawford Road, Rugby.

M

5. LEAM. Frankton, lane near the village ; banks near Cubbington.
6. SOW. Beausale, *Perry, MS.*, 1824 Corley Moor.
7. STOUR. Compton Warren, near Brailes, 1886.
8. ALNE. Lanes near Grove Park and Gannaway.
9. ARROW. Rough Hill and Wire Hill, Sambourn ; Sambourn Common ; Ipsley Meadows.

\**H. crocatum*, Blue Boar Lane, near Rugby, *Rugby Sch. Rep.*, 1887, is probably an error.

### HYPOCHÆRIS. *Linn.*

#### *H. glabra*, *Linn.*

*Smooth Cat's-ear.*

Top. Bot. 225. Syme, E. B. v. 128. 789.

Native ; gravelly waysides. Very rare. A. July.

First record, Ray. *Hieracium parvum in arenosis nascens feminum pappi densius radiatis.* Cat., 1670.

1. TAME. This was found on the gravelly heathy grounds near Middleton, *Ray Cat., Ed. 1*, 1670, 167. Washwood Heath, Warwickshire, *With., Ed. 2. ii.* 859.

This plant appears to be extinct now. I have carefully examined the heathy ground near Middleton, but have not been able to find it there. Washwood Heath is now built upon.

#### *H. radicata*, *Linn.*

*Long-rooted Cat's-ear.*

Top. Bot. 225. Part. ii. 377. Syme, E. B. v. 129. 790.

Native ; banks, heaths, meadows, &c. Common, and generally distributed. P. May to October.

Absent over wide areas in the southern part of the county.

First record, the Author, 1867, Sutton Park.

### LEONTODON. *Linn.*

#### *L. hirtus*, *Linn.*

Top. Bot. 223. Part. ii. 367. Syme, E. B. v. 131. 792.

Native ; heaths, pastures, and waysides. Local and rare. P. May to September.

First record, Kirk to Top. Bot., 1858.

1. TAME. Sutton Park, near the entrance ; Middleton Heath.
2. BLYTHE. Coleshill Heath ; pastures, Hampton-in-Arden ; Knowle ; Solihull.
3. ANKER. Oldbury Reservoir, in meadows ; Hartshill, in quarries.
4. AVON. Pastures, Waverley Farm, Stoneleigh.
5. LEAM. Harbury Heath ; Bishop's Itchington.
6. SOW. Beausale Common, *Y. and B.*
7. STOUR. Honington, *Newb.* Gorsy pasture by White House, near Tysoe ; Lower Tysoe.
8. ALNE. Pastures, Pinley Green.
9. ARROW. Pastures, footway from Alcester to Arrow.
10. CHERWELL. Pastures near Farnborough.

**L. hispidus, Linn.***Rough Dandelion.*

Top. Bot. 224. Purt. ii. 366. Syme, E. B. v. 133. 793.

Native ; pastures, heaths, and waysides. Common, and generally distributed.

P. June to September.

First record, Perry, List, 1817, Warwick, *Apargia hispida*, Willd.

I have found this plant in all the districts. In those drained by the Tame and its tributaries it is more frequent than in some of the South Warwickshire districts.

**L. autumnalis, Linn.***Autumnal Dandelion.*

Top. Bot. 224. Purt. ii. 366. Syme, E. B. v. 134. 794. 795.

Native ; pastures, heaths, and waysides. Common, and generally distributed.

P. July to October. Very variable.

First localised record, the Author, 1869, Knowle.

**TARAXACUM. Juss.****T. officinale, Webb.***Dandelion.*

Top. Bot. 236. *Leontodon Taraxacum*, Purt. ii. 365. Syme, E. B. v. 142. 802.

Native ; waysides, banks, pastures, &c. Common and generally distributed. P. March to October.

First record, Rugby School Report, 1868, near Rugby.

Var. *b. erythrospermum* (Andrz.).

Top. Bot. 236. Syme, E. B. v. 142. 803.

1. TAME. Sutton Park ; Oscott ; walls, Tipper's Hill, Arley.
2. BLYTHE. Hampton-in-Arden ; Marston Green ; Knowle ; meadows near Umberslade.
3. ANKER. Parley Park ; Mancetter ; Hartshill Quarries.
4. AVON. Warwick ; Wootton, *Brom.* Burton Dassett Hill, *Bolton King*.
5. LEAM. Princethorpe ; Weston Churchyard wall.
6. SOW. Kenilworth, *Brom.* Withybrook, near Coventry.
7. STOUR. Halford ; Pillerton Lazer.
8. ALNE. Henley-in-Arden ; Billesley ; Yarningale Common.
10. CHERWELL. Footways, road from Fenny Compton to Farnborough.

Var. *c. palustre* (DC.).

Top. Bot. 236. Syme, E. B. v. 143. 804.

Marshes and damp meadows. Local.

1. TAME. Sutton Park ; waysides and damp pastures, Middleton Heath ; Ballard's Green ; Arley ; meadows by Hill Houghton Hall, Nether Whitacre.
2. BLYTHE. Hampton-in-Arden ; Springfield, Temple Balsall ; marshy field, near Packwood Mill.
3. ANKER. Polesworth ; Wolvey ; Weddington.
4. AVON. Rough pasture by Chesterton Wood.
6. SOW. Haseley ; Beausale Common ; Wroxall, *Brom.* Withybrook, near Coventry.
7. STOUR. Wolford Heath ; Wimpstone Fields.
8. ALNE. Yarningale Common.
9. ARROW. Damp pastures near Coughton Court.
10. CHERWELL. Wormleighton Reservoir.

Var. *d. udum* (Jord.). Var. *laevigatum* (Reich.).

Damp meadows. Rare.

1. TAME. Sutton Park.
2. BLYTHE. Springfield, Temple Balsall.
3. ANKER. Weddington; Bramcote.
4. AVON. Sitchfield, Chesterton Wood, 1878.
6. SOW. Withybrook, near Coventry.
8. ALNE. Yarningale Common.
10. CHERWELL. Wormleighton Reservoir.

This occurs with *T. palustre* in many of the stations cited, but is recognisable at once by the paler yellow colour of its flowers, the slightly reflexed phyllaries which are appendaged, and, when in fruit, by the olive green achenes.

### LACTUCA. Linn.

#### *L. virosa*, Linn.

*Strong-scented Lettuce.*

Top. Bot. 225. Purt. ii. 372. Syme, E. B. v. 145. 805.

Native; banks. Rare. A. or B. July-August.

First record, Bree in Midland Flora, 1817.

2. BLYTHE. Roadsides, Stonebridge, *Bree in Purt.* ii. 372. On the left hand side of the road from Stonebridge to Meriden, *Smith in Per. Fl.* 65. Maxstoke, *Blox. in Litt.*
4. AVON. Near Chesterton Wood, *Brom.*, abundant in 1875!
5. LEAM. Between Dunchurch and Willoughby, *Blox. N.B.G.S.* Road between Dunchurch and Southam, *Baynes, MS.* Between Southam and Ladbroke, *Baxter, MS.*
6. SOW. Railway near Willenhall, *Kirk.*
10. CHERWELL. Avon Dassett, *Brom.*

This plant is quite extinct in the district near Stonebridge, every likely place having been well searched within the last few years.

#### *L. muralis*, Fresen. *Prenanthes muralis*, Linn.

*Wall Lettuce.*

Top. Bot. 226. Purt. ii. 376. Syme, E. B. v. 150. 808.

Native; woods, banks, and walls. Local. A. or B. July to September.

First record, Perry, List, 1817.

1. TAME. Sutton Park; Middleton; Over Whitacre; Arley; Birchley Heath; Fillongley.
2. BLYTHE. Berkswell; Bradnock's Marsh, *Grove.* Maxstoke; Stonebridge; Solihull; Packwood; Forshaw Heath.
3. ANKER. Merivale; Hartshill; Amington; Newton Regis.
4. AVON. Mellos Lane and Vineyard Lane, Warwick, *Perry, List*, 1817. In front of Dr. Welch's house, Church Street, Warwick, *Baynes, MS.* Woodloes, *Brom.* Edgehill! Chadshunt, *Bolton King.* Salford, *Caswell.* Near Brandon Station, *Rugby Sch. Rep.*, 1876. Alveston Pastures, near Stratford-on-Avon.
5. LEAM. Between Southam and Ladbroke, *Baxter, MS.* Near Frankton Wood! *Rugby Sch. Rep.*, 1876. Princethorpe; Offchurch Heath.
6. SOW. Allesley! Meriden! *Bree, N. B. G.* Kenilworth, *Brom.* Corley.
8. ALNE. Banks near Rowington Church! 1844, *Perry, MS.* Banks near Preston Bagot; Lapworth Street.
9. ARROW. Between Middletown and Sambourn; between Washford and Mapleborough Green! *Purt.* ii. 376.

**SONCHUS.** *Linn.*

**S. oleraceus,** *Linn.* *Smooth Sow Thistle.*

Top. Bot. 227. Purt. ii. 370. Syme, E. B. v. 153. 810.

Native; banks, waysides, cultivated ground. Common, and generally distributed. A. May to September.

First record, the Author.

A form with glandular peduncles occurs near Nuneaton, and *Mr. Bromwich* finds a similar variety near Warwick.

**S. asper,** *Hoffm.* *Rough Sow-Thistle.*

Top. Bot. 227. Syme, E. B. v. 154. 811. 812.

Native; banks, waysides, and cultivated land. Common, and generally distributed. A. May to September.

First record, Rugby School Report, 1868, near Rugby.

A form with pinnatifid leaves and glandular peduncles was abundant on the canal side near Burton Hastings. *Mr. Newbould* records the form with entire leaves from near Honington.

**S. arvensis,** *Linn.* *Corn Sow Thistle.*

Top. Bot. 227. Purt. ii. 371. Syme, E. B. v. 155. 813.

Native; cultivated fields and waysides. Common, and generally distributed. P. July to September.

First record, Perry, List, 1817. Whitnash Road, Warwick.

A peculiar form of this occurs on heathy land near Morton Bagot. Root leaves oblanceolate, sub-obtuse, gradually narrowed into a slightly winged petiole, runcinate, serrate, scarcely lobed, half-an-inch wide; stem leaves runcinate, lobed and toothed, narrowed below, scarcely clasping.

**TRAGOPOGON.** *Linn.*

**T. pratensis,** *Linn.* *Goat's Beard.*

Top. Bot. 220. Purt. ii. 364. Syme, E. B. v. 138. 798.

Native; banks, waysides. Rather rare. B. June to September.

First record, the Author, 1869, Knowle.

2. BLYTHE. Marston Green; Eastcote Green; near Knowle.

4. AVON. Railway bank, Milverton; Hill Wootton, Warwick, *Brom.* Light-horne, *Miss Palmer.*

5. LEAM. Ladbroke, in cultivated fields, *Bolton King.*

8. ALNE. Cultivated fields, Lapworth.

9. ARROW. Ipsley, *Slatter*; Studley; Alcester Reservoir.

10. CHERWELL. Cornfield, bridle road from Fenny Compton to Farnborough.

*b. minus* (Mill). Syme, E. B. 139. 799. Frequent.

1. TAME. Oscott, *Caswell.* Railway bank near Aston Church,

2. BLYTHE. Railway bank, Hampton-in-Arden; Earlswood.

3. ANKER. Hartshill.

4. AVON. Lillington, *Brom.* Stratford-on-Avon, *Newb.* Bidford Grange; Salford Priors; Chesterton.

5. LEAM. Itchington; Harbury; Birdingbury; Marton; Frankton.

6. SOW. Willenhall, *Kirk, Herb. Brit. Mus.* Combe Fields; Stoke.
7. STOUR. Lambcote, *Newb.* Great Wolford.
8. ALNE. Rowington; Wawen's Moor; Henley-in-Arden.
9. ARROW. Studley; Sperrall.
10. CHERWELL. Farnborough; Ratley, Edge Hill.

Not an infrequent plant on railway banks throughout the county, and often growing in great abundance.

[\*\* *T. porrifolius*, Linn. *Salsify*.

Casual or alien; recorded by *Purton* from Gorcot Hall, and by *Bromwich* on a railway bank near Leamington.]

From either locality this cannot be considered as more than an escape from cultivation.

## ORD XL. CAMPANULACEÆ.

### JASIONE. Linn.

*J. montana*, Linn. *Sheep's Bit.*

Top. Bot. 267. Syme, E. B. vi. 4, 863.  
Native; heaths and heathy waysides. Rare. A. or B. June to September.  
First record, Ick, Analyst, 1837.

1. TAME. Near Sutton Woods, *Ick, Anal.* Near Sutton, *Freeman, Phyt.* i. 262. Railway embankment, Sutton Park, 1880. Middleton Heath.
4. AVON. On the Hill Morton Road, near Rugby, *Blox., MS.*
5. LEAM. Near Leamington, *Herb. Per.*
6. SOW. Kenilworth, *Y. and B.*

I am convinced that this plant will be found on some of the heathy waysides near Sperrall and Morton Bagot, and I should also expect to find it on Wolford Heath, which is rather prolific in ericetal plants.

### WAHLENBERGIA. Schrader.

*W. hederacea*, Reich. *Ivy-leaved Bell-flower.*

*Campanula hederacea*, L. Top. Bot. 266, Syme, E. B. vi. 18. 875.  
Native? damp turfy meadows. Very rare. P. July-August.  
First record, Kirk, *Phytologist*, ii. 970, 1844.

1. TAME. Sutton Park, *A. W. Wills.* Not indigenous.
3. ANKER. Between Nuneaton Common and the town, *Power, MS.* On spongy turf, with *Anagallis tenella*, near Arbury Hall! "Possibly planted, but I think it truly indigenous to this locality." *Kirk, Phyt.* ii. 970.

Abundant in this station in 1872. I scarcely think it is indigenous in the Arbury grounds, but possibly it is so on Nuneaton Common.

[\*\* *Phyteuma spicatum*, Linn. *Rampion.*

Comp. Cyb. 536. Syme, E. B. vi. 6. 865.  
Casual; Hill Wootton, *Herb. Brit. Mus.* One plant of it found in Warwickshire in 1865, *Comp. Cyb.* 536.]

[\*\**P. nigrum*, Schmidt. On an old bank between Leek Wootton and Ashow, May, 1863, *Thomas Cox, Herb. Bab.*]

In both instances mere escapes from some adjacent garden.

### CAMPANULA. *Linn.*

#### *C. glomerata*, *Linn.*

*Clustered Bell-flower.*

Top. Bot. 265. *Purt* i. 119. Syme, E. B. vi. 8. 866.

Native; woods, banks, in calcareous soils. Rare. *P.* June to August.

First record, Perry, List, 1817.

4. AVON. Pillerton, *Perry, List*, 1817. Chesterton; Moreton Morrell, *Y. and B.* Wellesbourne Hastings; Lighthorne Rough, *Bolton King*. Brandon; Binton, near the church.
5. LEAM. Between Southam and Radford Semele, *Baynes, MS.* Corner of Whitnash Field, at the crossing of the Fossoeroad, 1835, *Per. MS.* Ufton! very large, *Bolton King*.
8. ALNE. Wilmcote, *Blax.* Plentiful in Drayton Bushes.
9. ARROW. "Above Roll's Wood, on the side of the road to Grafton," *Purt*. i. 120. Near Rose Hall, Oversley.
10. CHERWELL. Avon Dassett, *Brom.* Near the Church, Warmingtton, 1886; near Compton Quarry, Avon Dassett.

#### *C. Trachelium*, *Linn.*

*Nettle-leaved Bell-flower.*

Top. Bot. 265. *Purt* i. 118. Syme, E. B., vi. 9. 867.

Native; woods, thickets, and banks. Local. *P.* July-August.

First record, Perry, List, 1817.

1. TAME. Railway bank, near Water Orton; lanes, near Minworth; near Hoare Park; between Ansley and Over Whitacre.
4. AVON. Stoneleigh; aqueduct near Leamington; Pillerton, *Perry, List*, 1817. Red Hill! near Alcester; Chesterton Wood, *Mr. Pritchett*, 1833, *Perry, MS.* Chesterton! *Y. and B.* Radway, *Beesley*. Lighthorne Rough; Moreton Morrell.
5. LEAM. Ufton, *Y. and B.* Bascote Heath, *Bolton King*. Ufton Wood.
6. SOW. Combe Fields! *Trott*.
7. STOUR. Long Compton Wood. Very rare in this district.
8. ALNE. Banks of the Alne, near Crab Mill, Preston Bagot; bridle road from Billesley to Wilmcote.
9. ARROW. Oversley Hill, with white flowers, banks of the Arrow, at Arrow, and Kingley.
10. CHERWELL. Farnborough, *Beesley*.

#### *C. latifolia*, *Linn.*

*Broad-leaved Bell-flower. Throatwort.*

Top. Bot. 264. *Purt* i. 117. Syme, E. B. vi. 10. 868.

Native; woods, hedges, banks. Rare and local. *P.* July-August.

First record, Countess of Aylesford, *Botanist's Guide*, 1805.

1. TAME. Old Chester Road, near Tyburn; between Ansley and Over Whitacre; near Arley Railway Station; Birchley Heath; Shustoke, by the River Bourne.
2. BLYTHE. Near Packington, *Aylesford, B. G.*, 634. Temple Balsall, *Grove*. Osier plantation, near Solihull; banks of the Blythe, Ryton End.
3. ANKER. Coppice, near Grendon.

4. AVON. Castle Park, Warwick; near the Aqueduct, Warwick; in a lane leading from the Woodloes to the Coventry Road, single specimen, *Perry, MS.* Sand rocks, near Milverton; between Blakedown and Chesford Bridge, *Baynes, MS.* Plantations at Coton House, by the side of the Lutterworth Road, *Blox., N. B. G. S., 1837.* The Grove, Stoneleigh Park.
5. LEAM. By the roadside, near Leamington, *Perry, MS.*
6. SOW. Var. *flore albo*, Allesley, *Bree, Mag. Nat. Hist.* iii. 346. Combe Woods, 1880; Crackley Wood.
7. STOUR. River bank, between Honington and Tredington, *F. Townsend.* Whichford Wood.
8. ALNE. Banks of the Alne, *Purt.* i. 118. Wilmcote, *Blox. in Litt.*
9. ARROW. Banks of the Arrow, *Purt.* i. 118. Ipsley, *Slatter.*
10. CHERWELL. Coppice, near Farnborough Pool, 1886.

[\*\**C. rapunculoides*, L. On roadsides, near Ragley, *Herb. Per.* Old gardens, Ansty, *Adams.* Is merely a straggler from cultivation.]

### *C. rotundifolia*, Linn.

*Harebell.*

Top. Bot. 263. *Purt.* i. 118. Syme, E. B. vi. 13. 870.

Native; woods, banks, field borders, and hedges. Common, and generally distributed. P. July to October.

First record, *Bree, Mag. Nat. Hist.*, 1829. With white flowers at Allesley and Coventry.

A form of this, with fasciated stems and double flowers, near Maxstoke, 1877.

\**C. Rapunculus*, Linn.

*Rampion.*

Top. Bot. (38). Syme, E. B. vi. 14. 872.

Alien; waysides and old gardens. Rare. B. July-August,

First record, *Perry, Plantæ Selectæ*, 1820.

3. ANKER. Not very uncommon in old gardens, &c. Abundant in the pleasure grounds, Arbury Hall! *Kirk, Phyt.* ii. 970.

4. AVON. Near Guy's Cliff, *Per. Fl.* 19. Near Gaveston Monument, on the Blacklow Hill, 1830; near the Woodloes, *Perry, MS.*

5. LEAM. By the roadside, in front of the house of M. Wise, Esq., Leamington, *Per. Fl.* 19.

6. SOW. Rounsel Lane, 1841, *Perry, MS.*

"Rare, possibly not indigenous, though perfectly established in Warwickshire." Syme, E. B. vi. 15.

### *C. patula*, Linn.

*Field Bell-Flower.*

Top. Bot. 263. *Purt.* i. 119. Syme, E. B. vi. 15. 873.

Native; woods, banks, and hedges. Rare and local. A. or P. July-August.

First record, Woodward in Withering's Arrangement, 1787.

1. TAME. On the roadside in a wet lane in the village called Water Orton, *With. Ed.* 5. ii. 307. Middleton; Wishaw; near Hoare Park, Nether Whitacre; Arley; Slowly Hill, near Shustoke.

2. BLYTHE. Inter Litchfield et Meriden! *copiose*, *Huds. Fl. Ang. Ed.* 3. 96. On the left hand side of the Meriden Road, about six miles from Birmingham! *With. Ed.* 5. ii. 307. Near Meriden and Coleshill! *Aylesford, B. G.* 633. In a hedge in a small village called Wells Green, near Helmington; about three miles from Birmingham, on the high road from Coventry! *Cullum, B. G.* 633. 634. It was still there in 1869. Barston, *Grove.* Lane near Balsall Street.

3. ANKER. Near Astley, near Fir Tree Grove, Arbury Hall, *Kirk, Phyt.* ii. 970.
4. AVON. Guy's Cliff, *Perry, List*, 1817. Near the Woodloes, 1835, *Perry, MS.* Sand rocks by the Avon, near Milverton, *Baynes, MS.*
6. SOW. By Lord Craven's Wood! Brinklow Road, *Blox., N. B. G. S.*, 1837. Willenhall Lane, *Kirk, Phyt.* ii. 970. Fern Hill Wood, 1831, *Perry, MS.* Allesley, *Miss Palmer.*
7. STOUR. Compton Scorpion, *Miss Palmer.*
8. ALNE. Borders of Hatton Wood, by the footpath leading into the Hockley Road, plentiful, *Per. Fl.* 19.
9. ARROW. On the side of Oversley Hill! Spennall Park, *Purt.* i. 119. Ipsley! *Slatter.*

### SPECULARIA. *Heist.*

#### *S. hybrida*, DC.

*Lesser Venus's Looking Glass.*

- Top. Bot. 266. *Purt.* i. 119. Syme, E. B. vi. 17. 874.  
 Colonist; cornfields, in calcareous and marly soils. Rare and local. A. June to September.  
 First record, Rufford in Purton's Midland Flora, 1817. *Campanula hybrida*, L.
2. BLYTHE. Fields, Siden Hill, near Hampton-in-Arden, *Rogers.*
  4. AVON. In cornfields near the School, Rugby, *Baxter in Purt.* iii. 342. In a field near the Lower Hill Morton Road, *Rugby Sch. Rep.*, 1869. Bidford, *J. Leese, N. B. G.* By the roadside, Stankhill; lane from Warwick, 1832, *Perry, MS.* Moreton Morrell; Fullbrook, *Y. and B.* Salford Priors, *Caswell.* Lighthorne, *Bolton King.* Cornfield, Red Hill; cornfield. Brandon.
  5. LEAM. Birdingbury, *Bree, Mag. Nat. Hist.* iii. 163. Cornfield, Whitnash, *Brom.* Upton! *Bolton King.* Southam, near the bridge crossing the Watergale, *Baynes.* Napton.
  8. ALNE. Alne Hills! *Rufford, in Purt.* i. 119. Peafield, bridle road from Wilmscote to Billesley.
  9. ARROW. Quarry, near Exhall.

## ORD. XLI. VACCINIACEÆ.

### VACCINIUM. *Linn.*

#### *V. Oxycoccus*, Linn.

*Cranberry. Moorberry.*

- Top. Bot. 271. *Purt.* i. 195. Syme, E. B. vi. 20. 876.  
 Native; peaty bogs. Very rare. S. June to August.  
 First record, Ray, *Oxycoccus seu Vaccinia palustris*, *J. B. Syn. Ed.* 3. 267. 1724.
1. TAME. On moorish ground and quagmires in Sutton Park! *Ray, Syn. Ed.* 3. 267. Birmingham Heath, *With. Ed.* 5. 402. Middleton Heath.
  2. BLYTHE. Near Packington! *Aylesford, B. G.* 635. Coleshill Bog! *Purt.* i. 195. Pool in Chelmsley Wood, *Bree, Mag. Nat. Hist.* iii. 164. This pool has been drained, and is now cultivated land, see *Mag. Nat. Hist.* v. 200, note by *Bree.*

**V. Vitis-Idæa, Linn.***Whortleberry.*Top. Bot. 270. *Purt.* ii. 731. Syme, E. B. vi. 22. 877.

Native; elevated peaty mounds, near bogs and marshes. Very rare. S. June to August.

First record, Ray, *Vaccinia rubra*, Ger. Catalogus, 1670.

1. TAME. Warwickshire, in Middleton Parish, by the New Park pales, *Ray, Cat.*, 1670. 309. On black boggy ground, between Middleton and Sutton, *Ray, in Gough's Camden* ii. 350. Sutton, *Freeman, Phyt.* i. 262. Sutton Park, in several places, 1866-89.
2. BLYTHE. By Mr. Worrall's farm, near Coleshill Heath, *Smith in Per. Fl.* 34.

I have not been able to find this plant anywhere else than Sutton Park. It appears to be exterminated in both the Middleton and the Coleshill districts.

**V. Myrtilus, Linn.***Bilberries. Blackworts.*Top. Bot. 270. *Purt.* i. 196. Syme, E. B. vi. 24. 879.

Native; woods and heaths. Local. S. April-May.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton, *Freeman, Phyt.* i. 262. Sutton Park; New Park, Middleton; wood near Middleton Village; Arley Wood.
2. BLYTHE. Chelmsley Wood; in woods near Maxstoke; woods near Solihull; Forshaw Park.
3. ANKER. Woods near Oldbury and Atherstone; Bentley Park; Seas Wood, Arbury.
6. SOW. Corley Wood.
8. ALNE. Haywood! *Y. and B.* Alderhanger, near Tanworth; Chalcot Wood, Umberslade.
9. ARROW. Studley Woods! *Purt.* i. 195. Wood near Headless Cross! *Perry, MS.* Coughton Park; Rough Hill Wood, Sambourn.

*Var. flore et fructu albo.* Corley Wood, *Bree, Purt.* iii. 356.

## ORD. XLII. ERICACEÆ.

**CALLUNA. Salisb.****C. Erica, DC.***Ling. Heather.*

*C. vulgaris*, Salisb. Top. Bot. 268. *Purt.* i. 192. Syme, E. B. vi. 43. 894. Native; heaths, heathy waysides, and banks. Local. S. July to September. First record, Withering's Arrangement, 1787.

1. TAME. Birmingham Heath! *With. Ed.* 2. ii. 398. Sutton Park; Middleton Heath; Gravelly Hill; Arley, &c.
2. BLYTHE. Coleshill Heath; Hampton-in-Arden; Shirley Heath; Earlswood; Forshaw Heath.
3. ANKER. Bentley; Baddesley and Baxterley Commons; Oldbury; Harts-hill, &c.
4. AVON. On the Rugby, Dunchurch, Barby, and Hill Morton Road, *Baxter, MS.*, 1819. Gaydon Gorse, *Bolton King*. Bridle road, near Church Lawford, *Rugby Sch. Rep.*, 1876.
5. LEAM. Ufton! *Bolton King*. Near Frankton Wood.

6. SOW. Haseley Common.
7. STOUR. Wolford Heath, near Great Wolford.
8. ALNE. Haywood; Yarningale Common &c.
9. ARROW. Coughton Park; Wire Hill; Studley Common.

Var. *b. incana*, Auct. Abundant at Sutton Coldfield; Hill Hook.

Forma *flore albo*. Sutton Park; Coleshill Heath.

I have given the localities for this plant *in extenso*, as it is diminishing in many of the districts, and in some of those belonging to the Avon basin is now absent or very rare.

### ERICA. Linn.

#### E. Tetralix. Linn. *Cross-leaved Heath.*

Top. Bot. 268. Purt. i. 192. Syme, E. B. vi. 37. 889.

Native; bogs and marshy places on heathlands. Rare and local. S. July to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Coldfield! *Ick, Anal.*, 1837. Hill Hook; Middleton Heath; Trickle Coppice.
2. BLYTHE. Coleshill Bog! *Ick, Anal.*, 1837. Coleshill Heath; Cornets End, near Berkswell; Forshaw Heath.
4. AVON. On the Dunchurch, Barby, and Hill Morton Road, about half a mile from Rugby, 1819, *Baxter, MS.*
5. LEAM. Between Dunchurch and Frankton, *Father Reader.*
6. SOW. Wroxall Heath, *Per. Fl.* 35. Haseley Common, 1838, *Perry, MS.*
9. ARROW. Studley Common, *Purt. i.* 193. Astwood Common.

Var. *flore albo*. Sutton Common and Coleshill Heath.

#### E. cinerea, Linn. *Fine-leaved Heath.*

Top. Bot. 268. Purt. i. 193. Syme, E. B. vi. 40. 891.

Native; heaths, heathy waysides. Locally common. S. July to September.

First record, Bree in Midland Flora, 1817. Var. *flore albo*.

1. TAME. Sutton Park; Middleton Heath; Middleton Woods; Gravelly Hill.
2. BLYTHE. Coleshill Heath; Marston Green; Cornets End, near Berkswell; Balsall Street; Forshaw Heath.
3. ANKER. Baxterley and Baddesley Commons; Ironstone Wood, Oldbury; Parley Park.
6. SOW. Stoke Heath.
7. STOUR. Wolford Heath, near Great Wolford.
8. ALNE. Yarningale Common.
9. ARROW. Coughton Park; Wire Hill; Studley.

Var. *flore albo*. Coleshill Heath! *Bree in Purt. i.* 192. Sutton Park, occasionally.

### PYROLA. Linn.

#### P. media, Swartz. *Intermediate Winter Green.*

Top. Bot. 272. Purt. i. 206. Syme, E. B. vi. 48. 897.

Native? woods. Very rare. P. June.

First record, Bree in Midland Flora, 1817.

2. BLYTHE. Wood at Meriden, *Bree in Purt. i.* 206.

**P. minor**, Sw. *Lesser Winter Green.*

Top. Bot. 272. Syme, E. B. vi. 49. 898. 38 Warwick, "Kirk Spec.," Top. Bot. 1868.

Probably both the above records refer to one and the same plant. I have never been able to find either species in this county, although I have carefully searched the woods at Meriden.

## ORD. XLIII. MONOTROPEÆ.

### HYPOPITHYS. Scop.

**H. multiflora**, Crantz. *Yellow Bird's-nest.*

*Monotropa Hypopithys*, L. Top. Bot. 273? Syme, E. B. vi. 53. 901.

Native; woods. Very rare. P. June-July.

First record, W. Satchell, 1848.

3. ANKER. Oldbury, near Atherstone, *Power, MS.*

4. AVON. Compton Verney, *W. Satchell, Herb. Per.*, 1848.

## ORD. XLIV. PRIMULACEÆ.

### HOTTONIA. Linn.

**H. palustris**, Linn. *Water Violet.*

Top. Bot. 335. Syme, E. B. vii. 130. 1128.

Native; pools and ditches. Very rare. P. June.

First record, Bree, 1830, *Magazine of Natural History.*

1. TAME. Between Coleshill and Tamworth, *Bree, Mag. Nat. Hist.* iii. 163.  
Osier holt, near Fazeley Bridge, 1833, *Baynes, MS.*

### PRIMULA. Linn.

**P. vulgaris**, Huds. *Common Primrose.*

Top. Bot. 334. Part. i. 113. Syme, E. B. vii. 131. 1129.

Native; woods and banks. Locally abundant. Found in all the districts, but very local in many parts of the Tame Valley. P. March to May or June.

First record, Bree, in *Midland Flora*. 1821. Vars. *flore albo* and *flore rubro*.

Var. *b. caulescens*, Bab. Rare.

1. TAME. New Park, Middleton; several roots. Very rare in this district.

2. BLYTHE. Wroxall, near Bedlam's End; Temple Balsall.

4. AVON. Badger's Wood, Stratford-on-Avon, *Cheshire, Herb. Per.* Lodge Woods, Salford Priors, *Caswell.*

6. SOW. Combe Woods! *Adams.*

- 7 STOUR. Honington, *Newb.*
8. ALNE. Haywood ; Rowington.

This is the form which seems to be most nearly like the type *vulgaris*, having pale yellow flowers, merely differing from the type in the presence of a scape, variable in length.

Var. *c. intermedia*, Bab. Rare.

1. TAME. New Park, Middleton ; Wishaw.
2. BLYTHE. Hampton-in-Arden, *Rogers*. Wroxall ! *Herb. Per.*
4. AVON. Chadshunt, *Bolton King*. Lighthorne, *Miss Palmer*.
7. STOUR. Honington, *Newb.* Wolford Wood.
8. ALNE. Lower Norton, *Cheshire, Herb. Per.* Rowington ; Holywell ; Yarningale Farm.
9. ARROW. *P. variabilis* Oversley Wood ! *Cheshire. Herb. Per.* Ragley Woods ; Spennall Park.

This is the form having flowers nearly as large as the primrose, but with the corolla segments concave and a bright yellow, and a scape more or less long. This appears to be much nearer to *P. veris*, in the structure of its flowers and the shape of its leaves.

**P. veris**, Linn. *P. officinalis*, Linn., Syme. *Cowslip*.

Top. Bot. 334. *Purt.* i. 114. Syme, E. B. vii. 133. 1130.  
Native ; woods, pastures, and roadsides. Rather local. *P.* April to June.  
First record, Kirk to Topographical Botany, about 1858.

1. TAME. Middleton ; Shustoke ; Kingsbury ; Sutton Park.
2. BLYTHE. Sheldon ; Solihull ; Shirley ; Earlswood.
3. ANKER. Hartshill ; Stockingford ; Mancetter ; Wolvey.
4. AVON. Lighthorne, *Miss Palmer*. Near Oakley ; Alveston ; Binton.
5. LEAM. Harbury Heath.
6. SOW. Corley Woods ; near Wroxall.
7. STOUR. Honington, *Newb.* Wolford ; Whichford, &c.
8. ALNE. Rowington ; near Preston Bagot ; Yarningale.
9. ARROW. Oversley ; Ragley ; Alcester ; Studley ; Spennall ; Morton Bagot.

Although this plant cannot be considered as other than a common one in the county as a whole, it is very rare in some of the districts.

The plant which Purton records as *P. elatior*, "common," is doubtless one or other of the caulescent forms of *P. vulgaris*.

### LYSIMACHIA. Linn.

**L. vulgaris**, Linn. *Yellow Loosestrife*.

Top. Bot. 336. *Purt.* i. 122. Syme, E. B. vii. 144. 1141.  
Native ; river banks, and damp, shady places. Rare. *P.* July-August.  
First record, Purton, Midland Flora. 1817.

1. TAME. Near Trickley Coppice, *Grove*.
2. BLYTHE. Coleshill, on the Blythe, *Bree in Purt.* iii. 343. Marston Green.
4. AVON. On the side of the Avon, below Bidford Grange, *Purt.* i. 122.  
Salford Priors, *Caswell*. Between Cawston and Thurlaston, *Rugby Sch. Rep.*, 1889.
5. LEAM. Radford (Semele), *Y. and B.*
6. SOW. Lane near Fern Hill Wood ! *Brom.*
7. STOUR. Whatcote, *Gorle*.

**L. Nummularia, Linn.***Creeping Jenny. Moneywort.*Top. Bot. 337. *Purt. i.* 121. Syme, E. B. vii. 148. 1144.

Native; wet meadows, banks of streams, and woods. Rather local. P. June to August.

First record, Perry List, 1817.

1. TAME. Common about Saltley and Edgbaston, *Ich, Anal.*, 1837. Trickley Coppice; Arley Wood.
2. BLYTHE. Bradnock's Marsh; Packwood; lanes about Hockley; Earlswood; canal, near Yardley Wood.
3. ANKER. Bentley Park; Shuttington; Hartshill Hayes; lane near Mancetter.
4. AVON. Newbold Pacey, *Gorle*. Lighthorne, *Bolton King*. Salford Priors, *Caswell*. Banks of the Avon, near Brownsover; banks of stream just before arriving at Newbold, by the footpath; at the base of old wall by the river, near Little Lawford Mill, *Rugby Sch. Rep.*, 1876; Alveston Pastures.
5. LEAM. Stockton; Itchington Holt; Ufton Wood; Draycote.
6. SOW. Combe Woods.
7. STOUR. Honington Park, *Newb*. Wimpstone Fields; Lower Easington; Atherstone-on-Stour.
8. ALNE. Haywood; Lowson Ford.
9. ARROW. Spennall; Coughton Park; Oversley.

**L. nemorum, Linn.***Yellow Pimpernel.*Top. Bot. 338. *Purt. i.* 121. Syme, E. B. vii. 149. 1145.

Native; damp woods and copses. Local. P. May to August.

First record, Lobel, Nova Stirpium Adversaria, 1796. *Anagallis lutea*. In *sylvia Coventrivi proxima*, p. 194.

1. TAME. Sutton Park; Trickley Coppice; New Park; Kingsbury Wood; Arley Wood.
2. BLYTHE. Coleshill Pool; Marston Green; Hampton-in-Arden; Solihull; Hockley.
3. ANKER. Local. Bentley Park; Hartshill Hayes; Seas Wood, Arbury.
4. AVON. Brandon end of Combe Woods.
5. LEAM. Princethorpe Wood! *Rugby Sch. Rep.*, 1876.
6. SOW. Crackley Wood, Kenilworth! *Per. Fl.* 17. Near Honiley, *Baynes, MS.* Woods near Coventry, *Lobel*. Combe Woods.
7. STOUR. Wolford Wood; Whichford Wood.
8. ALNE. Haywood; Chalcot Wood; Bushwood; Lapworth; near Claverdon; Pinley Hill, near Gannaway.
9. ARROW. Oversley Wood! Ragley Woods! Spennall Park! *Purt. i.* 121. Wire Hill Wood, Sambourn.

**ANAGALLIS. Linn.****A. arvensis. Linn.***Scarlet Pimpernel.*Top. Bot. 338. *Purt. i.* 115. Syme, E. B. vii. 150. 1146.

Native; cultivated fields and waysides, &amp;c. Common, and generally distributed. A. May to October.

First record, W. Cheshire, Herb. Perry, about 1850. *Var. pallida*.*Var. pallida.*

4. AVON. Scar Bank, near Hampton Lucy, *Cheshire, Herb. Per.*
6. SOW. Kenilworth, *Y. and B.*

A mere form, not usually noticed.

**A. cærulea, Schreb.***Blue Pimpernel.*

Purt. i. 115. Syme, E. B. vii. 151. 1147.

Native or colonist; gardens, fields, waysides, in calcareous and marly soils.

Rather rare. A. June to August.

First record, Purton, Midland Flora, 1817.

1. TAME. As a weed in a garden at Aston, not introduced; came up for several years.
4. AVON. Between Rugby and Holbrook, *Baxter, MS.* Bickmarsh, Bidford! Purt. i. 115. Binton! Saltisford, *Herb. Per.* Whitnash, *Brom., Herb. Brit. Mus.* Moreton Morrell! *Y. and B.* Chesterton; Lighthorne, *Bolton King.* Red Hill; Loxley; Brandon.
5. LEAM. Harbury, *Beesley.* Ufton, *Bolton King.*
6. SOW. Garden weed, at Ansty, *Adams.*
7. STOUR. About Honington, *F. Townsend.*
8. ALNE. Grafton! Purt. i. 115. Grafton! Billesley! *Herb. Per.* Wilmcote! *Blox. in Lit.*
9. ARROW. Quarry near Exhall; Wixford.

**A. tenella, Linn.***Bog Pimpernel.*

Top. Bot. 338. Purt. i. 115. Syme, E. B. vii. 152. 1148.

Native; bogs, and near streams, pools, marshes. Very rare. P. June to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Bogs, Sutton Park! *Bree, Mag. Nat. Hist.* iii. 163.
2. BLYTHE. Coleshill Bog! Purt. i. 116. Shores of Coleshill Pool; shores of Olton Reservoir.
3. ANKER. Arbury Hall, with *Wahlenbergia*, *Kirk, Phyt.* ii. 970.
6. SOW. Kenilworth, *Y. and B.*

**CENTUNCULUS. Linn.****C. minimus, Linn.***Bastard Pimpernel.*

Top. Bot. 339. Syme, E. B. vii. 153. 1149.

Native; damp drives in woods, and in heathy footways. Very rare. A. July-August.

First record, J. Power, MS., 1814?

1. TAME. Bull's Fields, and near Moor Hall, Sutton, *Power, MS.*
2. BLYTHE. Sandy waysides, Balsall Common, *Brom.*
6. SOW. Near Honiley, *Brom.* Damp, sandy drives, Combe Wood, 1880.
9. ARROW. Damp, sandy drive, Oversley Wood, *J. T. Slatter and J. E. Bagnall.*

**SAMOLUS. Linn.****S. Valerandi, Linn.***Brook Weed.*

Top. Bot. 339. Purt. i. 120. Syme, E. B. vii. 155. 1151.

Native; near rivers, marshy meadows. Rare. P. July to September.

First record, Purton, Midland Flora, 1817.

4. AVON. In some boggy ground, near Bidford Grange, *Purt.* i. 120. Lud-  
dington; Stratford-on-Avon, *Cheshire, Herb. Per.* Salford Brook,  
*Caswell.* Kineton, *Bolton King.* Near Guy's Cliff Mill, *Brom.*
5. LEAM. Near the river Leam, Leamington, *Per. Fl.* 21., *Herb. Per.* In a  
small pool, near Oldham's Mill, Leamington, *Baynes.* Itchington,  
*Bree, Mag. Nat. Hist.* iii. 165. Itchington Holt! *Cheshire, Herb. Per.*  
Birdingbury, *Y. and B.*
7. STOUR. Halford, *Newb.* Wet meadows west of Blackwell, *F. Townsend.*  
Abundant Wimpstone Fields.
8. ALNE. River Alne above Oversley, *Purt.* i. 120.

## ORD. XLV. OLEACEÆ.

FRAXINUS. *Linn.*

**F. excelsior, Linn.** *Ash Tree.*

Top. Bot. 275. *Purt.* ii. 495. Syme, E. B. vi. 56. 902.

Native; woods and hedges. Common, and generally distributed. T. March  
to May.

First record, Dr. Lloyd, *Herb. Perry*, 1835.

LIGUSTRUM. *Linn.*

**L. vulgare, Linn.** *Privet.*

Top. Bot. 274. *Purt.* i. 50. Syme, E. B. vi. 60. 904.

Native; woods, copses, and hedges. Locally abundant. S. June to August.  
First record, *Perry, List*, 1817.

1. TAME. Lanes about Witton; Middleton Woods; Kingsbury.
2. BLYTHE. Lanes about Solihull; Shirley; Earlswood, &c.
3. ANKER. Coventry Wood, Arbury, *Kirk, Herb. Per.* Atherstone; Harts-  
hill; Weddington; Wolvey; Austrey; Warton, &c. Very abundant in  
this district, and apparently wild.
4. AVON. Warwick, common, *Perry List*, 1817. Chesterton! *Y. and B.*  
Lighthorne, *Miss Palmer.* Alveston Pastures; Bidford; Salford Priors;  
Newbold-on-Avon; Brandon; Bilton, near Rugby.
5. LEAM. Willoughby; Shuckburgh; Birdingbury; Radford Semele; Har-  
bury Heath; Itchington Holt.
6. SOW. Combe Fields; Shilton; Sow Waste.
7. STOUR. Lambcote; Honington! *Newb.* Abundant, Ilmington; Wimp-  
stone Fields; Atherstone-on-Stour.
8. ALNE. Henley-in-Arden; Snitterfield and Bearley Bushes; Bearley;  
Wawen's Moor; Little Alne; Drayton Bushes; Preston Bagot.
9. ARROW. Morton Bagot; Spennall; Ipsley; Studley; Sambourn; Oversley.
10. CHERWELL. Farnborough; Warmington.

As this plant is frequently planted for hedges, it is very probable that in some  
of the stations cited it may have been introduced by man's agency, but I have only  
given those localities in which it now appears to be truly wild.

## ORD. XLVI. APOCYNACEÆ.

## VINCA. Linn.

**\*V. major, Linn.***Great Periwinkle.*

Purt. i. 133. Syme, E. B. vi. 62. 905.

Alien; banks and woods. Rare. P. April to June.

First record, Purton, Midland Flora, 1817.

1. TAME. Road from Castle Bromwich to Coleshill Heath, *Ich, Anal.*, 1837.
2. BLYTHE. Packington, *Miss Palmer*.
4. AVON. Between Stratford and Warwick, in two or three places near Warwick, *J. Wood, MS.*, in his copy of the Bot. Guide, page 634, *Newb. in Lit.* Salford, *Caswell*. Banks near Stratford-on-Avon, on the Alcester Road, escape.
6. SOW. Haseley Common; Corley Wood, *Herb. Per.* Near Brinklow, escape.
7. STOUR. Halford.
8. ALNE. Side of a mill pond near Claverdon, on the road for Warwick, *Perry, MS.*, 1825, *Herb. Per.* Lapworth.
9. ARROW. King's Coughton; Oversley. *Purt.* i. 135.

Evidently an escape where I have found it, and possibly so in the other stations above given.

**V. minor, Linn.***Lesser Periwinkle.*Top. Bot. 275. *Purt.* i. 133. Syme, E. B. vi. 63. 906.

Denizen; marly banks, rarely in woods. Local and rare. P. March to June.

First record, Bree in Midland Flora, 1817.

1. TAME. In a lane leading to Alum Rock, Upper Saltley, *Ich, Anal.*, 1837. Road from Castle Bromwich to Coleshill Heath, *Ich, Remarkable Plants*, 1838. Fillongley! *Bree in Purt.* i. 133. Wylde Green; Stechford.
2. BLYTHE. Abundant in several lanes near Solihull; Bentley Heath; Shirley Heath; Olton; Hay Lane, near the Box Trees, Hockley.
3. ANKER. Banks near Oldbury Reservoir, with white flowers.
4. AVON. In a lane leading from the turnpike road to the Woodloes, 1824, *Perry, MS.* In a marshy place on the S.-W. side of Oakley Wood, in flower! 1831, *Baynes, MS.* Salford Priors! *Caswell*.
6. SOW. Allesley, *Bree in Purt.* i. 133. Haseley Common; Corley Wood, *Herb. Per.* Corley Village.
7. STOUR. Honington Park! *Newb.*

## ORD. XLVII. GENTIANEÆ.

## BLACKSTONIA. Huds.

**B. perfoliata, Huds.** *Chlora perfoliata, Linn.**Yellow Centaury.*Top. Bot. 280. *Purt.* i. 193. Syme, E. B. vi. 73. 913.

Native; woods and waysides, in calcareous soils. Local and rare. A. July to September.

First record, Perry, List, 1817.

N

1. TAME. Railway bank, Arley, 1890.
3. ANKER. Plentiful on Gulleys Common, near Nuneaton, *Power, MS.*
4. AVON. Hill between Alcester and Stratford! *Perry.* Chesterton! *Y. and B.* Lighthorne, *Miss Palmer.* Lodge Woods, Salford, *Caswell.* Compton Verney, *Bolton King.* Near Fullbrook; near Stratford-on-Avon, *Cheshire, Herb. Per.* High bank, Birmingham Road, 2¼ miles from Warwick, *Perry, MS.* Bidford! *Bree, N. B. G.* Marl Cliff, Binton.
5. LEAM. At the crossing of the Fosse road, by the road from Tachbrook to Harbury, *Perry, MS.* Whitnash Pastures. *Herb. Per.* On a hill near the canal, between Offchurch and Bascote, *Baynes, MS.*
7. STOUR. Near Admington, *F. Townsend.*
8. ALNE. Great Alne! Grafton! *Purt* i. 194. Billesley! near Alcester, *Blax., N. B. G. S.* Wilmcote, and bridle road from Wilmcote to Billesley; Drayton Bushes; Little Alne; Bearley, canal bank; Austey Wood; Wootton Wawen.
9. ARROW. Near Roll's Wood, *Purt* i. 194. Moorland by Banum's Wood, Morton Bagot.

### ERYTHRÆA. *Renealm.*

**E. Centaurium, Pers.** *Chironia Centaurium*, Curt. *Centaury.*

Top. Bot. 279. *Purt* i. 134. Syme, E. B. vi. 67. 909.  
Native; woods, pastures, and heathlands. Locally common. A. June to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Middleton; Shustoke; Hurley.
2. BLYTHE. Duke Bridge; Maxstoke; Marston Green; Solihull; Knowle; Shirley Heath; Earlswood; Forshaw Heath.
3. ANKER. Bentley Park; Hartshill Quarries.
4. AVON. Wellesbourne, *Herb. Per.* Salford Priors, *Caswell.* Lighthorne, *Miss Palmer.* Stoneleigh Park; Alveston Pastures; Marl Cliff; Binton.
5. LEAM. Birdingbury Quarries; Ufton; Harbury Heath.
6. SOW. Meriden; Sow Waste; Tile Hill Wood; Corley Moor.
7. STOUR. Wimpstone Fields.
8. ALNE. Umberslade, *Grove.* Lapworth; Austey Wood, Wootton Wawen; Little Alne; Bearley, and Snitterfield Bushes; Billesley; Drayton Bushes; Lowson Ford.
9. ARROW. Moorland, by Banum's Wood, Morton Bagot; Sperrall; Wire Hill Wood, Sambourn; Coughton Park; Oversley Wood.
10. CHERWELL. Field above Avon Dasset.

**E. pulchella, Fries.**

Syme, E. B. vi. 68. 910.

Native; pastures in calcareous soils. Very rare. A. July-August.

First record, Baynes, MS., 1832.

4. AVON. Moreton Morrell, *Brom.*

5. LEAM. On Bascote Heath, near Southam, May, 1832, *Baynes, MS.*

### GENTIANA. *Linn.*

**G. Amarella, Linn.** *Autumnal Gentian.* *Felwort.*

Top. Bot. 276. *Purt* i. 138. Syme, E. B. vi. 76. 917.

Native; dry pastures in calcareous soils. Rare. A. July to September.

First record, Purton, Midland Flora, 1817.

4. AVON. Moreton Morrell, *W. Satchell*. Alcester Road, from Stratford; Banbury Road,  $2\frac{1}{2}$  miles from Stratford-on-Avon, *W. Cheshire, Herb. Per.* Red Hill, *Y. and B.* Myton, *Brom.* Gaydon, *Bolton King*. Redland Coppice, Lighthorne, *Miss Palmer*.
  6. SOW. Burton Green, *Brom.*
  7. STOUR. On rough moorlands, Wimpstone Fields, abundant, September, 1886.
  8. ALNE. Hill between Billesley and Wilmcote, *Cheshire, Herb. Per.* Alne Hills, *Purt.* i. 138. Near Norton Lindsay, *Brom.*
- Prior derives its popular name Felwort from *L. fel* (gall), from its bitterness, and *wort* (*G. wurz*), a root. "Popular Names," 78.

MENYANTHES. *Linn.*

**M. trifoliata**, *Linn.* *Buckbean.*

Top. Bot. 281. *Purt.* i. 122. Syme, E. B. vi. 79. 920.  
Native; bogs and marshes. Rare. P. May to August.  
First record, Purton, Midland Flora, 1817.

1. TAME. Hill Hook, abundant; Sutton, *Freeman, Phyt.* i. 262. Abundant at several of the pools in Sutton Park.
2. BLYTHE. Coleshill Bog! *Bree in Purt.* i. 122. Hurley; shores of Coleshill Pool, in abundance.
3. ANKER. Near Tamworth, *Baynes, MS.* Near Atherstone, *G. Harris*.
6. SOW. Westwood Heath; in the Windmill field, near Haseley, *Per, Fl.* 17. Fern Hill! near Kenilworth, *Y. and B.* Allesley, *Bree in Purt.* iii. 343. Near Tile Hill Wood, in abundance.
8. ALNE. In a pit on the Alne Hills, *Purt.* Shelfield, *Rufford in Purt.* i. 122. Snitterfield Bushes, *Cheshire, Herb. Per.* Bearley Bushes, 1884.

Most of our Warwickshire habitats for this plant have been drained, so that the plant is yearly becoming more rare.

LIMNANTHEMUM. *Gmel.*

\**L. peltatum*, *Gmel.* *Villarsia nymphaeoides*, *Vent.* *Fringed Buckbean.*

Top. Bot. 281. Syme, E. B. vi. 80. 921.  
Denizen; pools. Very rare. P. July-August.  
First record, Freeman, 1841.

2. BLYTHE. Packington Park, abundant, *Freeman, Phyt.* i. 262; in *Herb. Per. Kirk*, 1848.
4. AVON. Ornamental waters, Newbold House, near Rugby, *Blox. in Litt.*, 1871.

This plant was doubtless introduced into the lake in Packington Park by the late Countess of Aylesford. If it had existed there before 1805 it would have been recorded in the Botanist's Guide, as Lady Aylesford recorded all the rare plants of that district which came under her notice. Mr. Bloxam considered the plant as a recent introduction in the waters of Newbold House.

[\*\**Polemonium caeruleum*, *Linn.* Casual; near old gardens. Occurred in the neighbourhood of Warwick (*Brom.*) and Shirley.]

## ORD. XLVIII. BORAGINÆÆ.

CYNOGLOSSUM. *Linn.***C. officinale**, *Linn.* *Hound's Tongue.*

Top. Bot. 329. Purt. i. 109. Syme, E. B. vii. 118. 1118.  
Native; waysides and banks. Local. B. or P. June to August.  
First record, Perry, MS., 1821.

1. TAME. On a bank at Castle Bromwich, *Ich, Anal.*, 1837.
4. AVON. On a hill above the Bank Croft, Hampton Lucy, plentiful, August, 1821, *Perry, MS.* Hatton Rock, near Hampton Lucy; Fullbrook, near Warwick, *Y. and B.* Compton Verney, *Brom.* Lanes near Stratford, *Newb.* Chadshunt, very rare, *Bolton King.* On waysides between Stratford-on-Avon and Binton; on the roadsides between Stratford and Alveston Pastures.
5. LEAM. Lane leading by Oldham's House, Leamington, *Baynes, MS.*
6. SOW. Kenilworth, *Brom.*
7. STOUR. Halford, *Gorle.* Honington! *Newb.*
8. ALNE. Bridle road from Billesley to Wilmcote.

**C. montanum**, *Lam.* *C. sylvaticum*, *Jacq.*

Top. Bot. 329. Syme, E. B. vii. 119. 1119.  
Native; on banks. Very rare. B. June to August.  
First record, Perry, 1812.

4. AVON. Pigwell Lane, Warwick, 1812; on a hedge bank, Cape of Good Hope, Warwick, *Per. Fl.* 15. On a bank near the Copse, Warwick, *Herb. Per.* Milverton, *Brom.*
6. SOW. Dunspit Lane, Kenilworth, *Herb. Per.* Near Kenilworth Chase Woods, *Brom.*

SYMPHYTUM. *Linn.***S. officinale**, *Linn.* *Comfrey.*

Top. Bot. 326. Purt. i. 108. Syme, E. B. vii. 114. 1115.  
Native or denizen; river banks, near streams. Rare and local. A. or B. May to August.  
First record, Purton, Midland Flora, 1817.

1. TAME. By the Tame, Aston and Witton; near Oscott College; Sutton.
2. BLYTHE. Near Knowle; Solihull; Temple Balsall; Olton.
3. ANKER. Lane above Mancetter; rare in this district.
4. AVON. Milverton, *Y. and B.* Lighthorne, *Miss Palmer.* Near Brownsover Mill, *Rugby Sch. Rep.*, 1876. Banks of the Avon, near Blakedown Mill; Ashow, *Perry, MS.* Further end of the osier bed, Guy's Cliff, *Baynes, MS.* Newbold Pacey.
5. LEAM. Near the River Leam, near Leamington, *Baynes, MS.*
6. SOW. Kenilworth, *Y. and B.*
7. STOUR. Roadside between Tredington and Shipston! (plentiful), *Per. Fl.* Honington! *Newb.* River Stour, near Lower Easington; Upthorpe Bridge.
9. ARROW. River Arrow, near Oversley Bridge, *Purt. i.* 108. Ipsley; Clarke's Green, Studley; near Beauchamp Court; Coughton; Wire Hill, Sambourn.

Var. *patens*, (Sibth.) Local.

6. Sow. Kenilworth.

7. STOUR. Honington, Halford ! *Newb.* Barton-on-the-Heath; near Upthorpe Bridge.

[\*\**S. tauricum*, Willd.

Alien or casual; banks. Very rare. A. or B. May to August.

4. AVON. Established in enclosed land between Leamington and Warwick. *C. Bailey, Exch. Club Rep.*, 1879, p. 24.

6. Sow. Permanently established at Allesley, *Kirk, Comp. Cyb. Brit.* 548. Occurs as a garden escape at Allesley, *Syme, E. B.* vii. 121.

Doubtless planted here by the late Rev. W. T. Bree, who introduced several other such plants.]

[\*\**S. tuberosum*, Linn. Allesley, *Kirk, Herb. Perry.*

This is also a casual, most probably introduced by the same botanist.]

### BORAGO. Linn.

[\*\**B. officinalis*, Linn. *Borage.*

Purt. i. 111. *Syme, E. B.* vii. 112. 1114.

Casual or denizen; waste heaps and fields. Very rare. P. June to August. First record, Purton, Midland Flora, 1817.

2. BLYTHE. As a weed in cultivated ground, Hampton-in-Arden, *Rogers.* On a rubbish heap, Birmingham Road, near Solihull, 1876.

4. AVON. In gardens at Warwick, *Per. Fl.* 16. On the rocks near Guy's Cliff House, close to Guy's Cave, *Baynes, MS.*, 1833.

5. LEAM. In gardens at Leamington, *Per. Fl.* 16. Leamington, in a field lying between the Mall and the River Leam, *Per. MS.*

6. SOW. At Allesley, with white flowers, *Bree, Mag. Nat. Hist.* i. 392. Crackley, *Y. and B.*

9. ARROW. Among some rubbish in a field by the Arrow Turnpike, *Purt.* i. 111.]

Doubtless in all the cases cited a mere remains or an escape from cultivation.

### ANCHUSA. Linn.

\**A. sempervirens*, Linn. *Evergreen Alkanet.*

Purt. iii. 22. *Syme, E. B.* vii. 111. 1113.

Denizen; banks near villages. Rare. B. May to August.

First record, Withering's Arrangement, Ed. 2, 1787.

1. TAME. Near Birmingham, on the Alcester Road, *With. Ed.* 2. i. 192. In sandy hedge banks in lanes about Edgbaston, *With. Ed.* 5. ii. 290. On the roadside opposite the church at Edgbaston, August, 1829, *Perry, MS.* Four Oaks, near Sutton.

4. AVON. On a sandstone rock at Guy's Cliff, *Baynes, MS.* Near Newbold Grange (escaped), *Rugby Sch. Rep.*, 1868. On the Fosseyway, near Brandon.

6. SOW. Near Kenilworth, in the Coventry Road ! *Herb. Per.*; plentiful there in 1875. Crackley, *Y. and B.* Near Corley, *Rev. R. Potter.*

10. CHERWELL. Farnborough ! *Beesley.*

LYCOPSIS. *Linn.*

**L. arvensis, Linn.** *Anchusa arvensis*, Bieb. *Small Bugloss.*

Top. Bot. 328. Purt. i. 110. Syme, E. B. vii. 109. 1111.

Native; fields, banks, waysides. Rather local. A. or B. June-July.

First record, Ick, Anal., 1837.

1. TAME. On a bank at Castle Bromwich; at Saltley, at the corner of the road to Castle Bromwich, *Ick, Anal.*, 1837. Erdington, *Grove*. Cornfields, Witton; railway banks, Sutton Park.
2. BLYTHE. Cornfields, near Coleshill and Great Packington; cornfields near Meriden; heathy waysides, Marston Green; cornfields near Solihull and Knowle.
4. AVON. Salford Priors, *Caswell*. Road from Hill Morton to Clifton; road to Church Lawford, *Rugby Sch. Rep.*, 1876. Near Bilton, *Rugby Sch. Rep.*, 1889. Ryton-on-Dunsmore, *Grove*. Cornfield near Brandon.
5. LEAM. Cornfields near Offchurch; Marton.
6. SOW. Hedge banks and cornfields near Binley and Stoke.
7. STOUR. Abundant by Uphorpe Bridge, 1888.
8. ALNE. Fallow fields, bridle road from Wilmcote to Billesley.

I have looked for but never found this plant in the Anker districts or in those drained by the Arrow.

[\*\**Pulmonaria officinalis*, Linn.

Alien; in shrubberies. Very rare. P. July-August.

2. BLYTHE. In a shrubbery near Elmdon Hall.
3. ANKER. Arbury Hall, *Kirk, Herb. Per.*
4. AVON. On the road between Leamington and Kenilworth, near Chesford Bridge, 1831, *Baynes, MS.*]

[\*\**Echinosperrum Lappula*, Linn., occurs as a casual in skin yards at Kenilworth, *Brom*. Introduced with foreign skins.]

MYOSOTIS. *Linn.*

**M. cæspitosa, Schultz.**

Top. Bot. 324. Syme, E. B. vii. 98. 1103.

Native; near pools, streams, and marshy places. Frequent. P. June to September.

First record, Bree, Watson's New Botanist's Guide, 1835.

1. TAME. Sutton Park, abundant; Middleton Heath; Kingsbury.
2. BLYTHE. Coleshill Pool; Marston Green; Hampton-in-Arden; Solihull; Olton Pool; near Berkswell.
3. ANKER. Deer Park, Arbury, *Kirk, Phyt.* ii. 971. Near Shuttington; Rye Hills.
4. AVON. Common about Rugby, *Baxter, MS.* Near Brownsover and Clifton Mills, *Rugby Sch. Rep.*, 1876. Lighthorne, *Miss Palmer*. Canal, near Stratford-on-Avon.
5. LEAM. Pit near Birdingbury Railway Station.
6. SOW. Watery places on Stoke Heath! Whitley Common! Coventry Park, *Kirk, Phyt.* ii. 971. Henley Mill, near Wyken; Corley Moor.
7. STOUR. Honington, *Newb.* Pit on Wolford Heath; Wimpstone Fields.

8. ALNE. Canal, Wilmcote ; Lowson Ford.
9. ARROW. Pit, Sambourn Lane.
10. CHERWELL. Pit, bridle road, Wormleighton to Farnborough.

**M. palustris, With.** *Forget-me-not.*

Top. Bot. 352. Purt. i. 106. Syme, E. B. vii. 99. 1104.  
Native ; river banks, streams, pools, &c. Rather local. P. May to July.  
First localised record, the Author, 1869.

1. TAME. Sutton Park, 1868 ; Middleton Heath ; Water Orton ; near Kingsbury.
2. BLYTHE. Coleshill Pool ; Meriden ; Blythe Bridge ; Solihull ; Earlswood.
3. ANKER. Canal between Atherstone and Nuneaton, abundant ; canal, near Burton Hastings ; abundant in the River Anker, Shuttington Bridge, and elsewhere,
4. AVON. Lighthorne, *Miss Palmer*. Cathiron Lane, near Rugby ; Drayton, near Stratford-on-Avon.
5. LEAM. River Itchen, at Snowford Bridge ; Willoughby, near Rugby ; stream, footway from Thurlaston to Bourton ; Stockton, near the Reservoir.
6. SOW. Combe Fields ; Ansty ; Sow Waste Canal.
7. STOUR. Honington ! *Newb.* Pool near Burton-on-the-Heath ; Traitor's Ford, near Whichford.
8. ALNE. Canal, near Preston Bagot ; near Wootton Wawen ; stream near Lowson Ford.
9. ARROW. Stream, near Studley.
10. CHERWELL. Farnborough Pool, 1869.

Var. *b. strigulosa* (Reichb.) Rare.

2. BLYTHE. What I take to be this variety abundant with the type at Blythe Bridge, Solihull.
5. LEAM. Snowford Bridge.
7. STOUR. Honington, *Newb.*
8. ALNE. Canal, near Bearley.

**M. repens, D. Don.** *Creeping Forget-me-not.*

Top. Bot. 323. Syme, E. B. vii. 101. 1105.  
Native ; pools, streams, marshes. Rare. P. June to August.  
First record, Cheshire, Herb. Perry, about 1856.

1. TAME. Abundant at one or two of the pools in Sutton Park, very characteristic ; Trickle Coppe, Middleton.
2. BLYTHE. Bog near Stonebridge ! *Cheshire, Herb. Per.*, about 1856.  
Drains between Forge Mills and Coleshill ; Hill Bickenhill, very abundant. This I believe is Cheshire's station, it is within a mile of Stonebridge ; Olton Pool.

**M. sylvatica, Hoffm.** *Wood Scorpion Grass.*

Top. Bot. 324. Syme, E. B. vii. 103. 1107.  
Native ; woods and copses. Rare. B. or P. April to June.  
First record, Kirk, Phytologist, 1844.

1. TAME. In a ditch near Arley ! *Grove*. Coppice near Shustoke ; dingle near Fillongley Hall ; banks of the Bourne near Arley Railway Station.

2. BLYTHE. Near Maxstoke Priory.
3. ANKER. In plantations near Arbury Hall, *Kirk, Phyt.* ii. 971. Hartshill !  
*Herb. Perry.* Hartshill Hayes, most probably this is Perry's station.
4. AVON. By Chesterton Pool ! *Brom.* It was not in flower when I saw it,  
but the root leaves were those of *M. sylvatica*.
8. ALNE. Abundant in a deep dingle near Henley-in-Arden.
9. ARROW. Washford, in a dingle by the river ; near Coughton Mill ; near  
Ipsley Mill.

**M. arvensis, Hoffm.***Field Scorpion Grass.*

Top. Bot. 325. Purt. i. 107. Syme, E. B. vii. 105. 1108.  
Native ; woods, hedge banks, waysides, and fields. Common, and generally  
distributed. A. or B. April to September.  
First record, Rugby School Report, 1868, Rugby.

Var. *umbrosa*, Bab. Locally common.

1. TAME. Fillongley, near Arley Station ; Kingsbury Wood.
2. BLYTHE. Near Maxstoke ; Solihull ; Spring Coppice, near Hockley.
3. ANKER. Rather rare, lane from Shilton to Wolvey.
4. AVON. Warwick Deer Park, *Dr. Baker.*
5. LEAM. Wappenbury and Princethorpe Woods.
6. SOW. Corley Woods.
7. STOUR. Honington. *Newb.* Great Wolford Lane, by Four-shire Stone,  
abundant ; Lower Easington ; Whichford.
8. ALNE. Drayton Bushes, 1872 ; Austey Wood.
9. ARROW. Wire Hill Wood, Sambourn ; lanes near Morton Bagot ; Cough-  
ton Park ; Oversley Wood ; Ragley Park ; Studley Wood.
10. CHERWELL. Canal side, near Wormleighton.

Liable to be mistaken for *M. sylvatica*, but it differs in colour and shape of  
corolla, and has a more straggling habit ; usually abundant where it does occur.

**M. collina, Hoffm.***Dwarf Forget-me-not.*

Top. Bot. 325. Syme, E. B. vii. 106. 1109.  
Native ; old walls, dry heathy places. Rare. A. or B. May-June.  
First record, Cheshire, *Herb. Perry*, 1855.

1. TAME. Sutton Park, at the Four Oaks end.
2. BLYTHE. Maxstoke Priory ruins, 1866 ; Coleshill Heath, abundant ; Brad-  
nock's Marsh, on footbridge, 1881.
3. ANKER. Old walls, ruins of Nuneaton Abbey.
4. AVON. Railway cutting near Stratford-on-Avon ; Hare's Lane, Stratford-  
on-Avon, *Cheshire, Herb. Per.* Salford Priors ! *Caswell*, on old walls  
there in 1874. Milverton, *Y. and B.* Near Brandon.
6. SOW. Kenilworth Castle, *Kirk, Herb. Per.* Peafield near Binley Com-  
mon.
7. STOUR. Abundant on Wolford Heath, 1886 ; Burton-on-the-Heath.
8. ALNE. Canal side, near Lowson Ford.
9. ARROW. Sperrall Ash, *Cheshire, Herb. Per.* Old stone fence, Coughton  
Court, 1878-86.

A dwarf form of *M. arvensis* occurs in heathy fields, which closely simulates  
this in habit and colour of corolla.

**M. versicolor**, *Reichb.**Yellow and Blue Forget-me-not.*

Top. Bot. 325. Syme, E. B. vii. 107. 1110.

Native; woods, heathy waysides, fields. Rather rare. A. or B. April to June.

First record, Baxter, MS., 1844?

1. TAME. Erdington, in a field near the Orphanage, 1883, *Grove*. Hill Wood, near Sutton; Sutton Park; New Park, Middleton.
2. BLYTHE. Woods near Maxstoke; Coleshill Heath; woods near Berkswell.
4. AVON. Common about Rugby, *Baxter, MS.* Milverton, *Y. and B.* Near Lawford Heath; Dunchurch Road, *Rugby Sch. Rep.*, 1876. Light-horne, *Miss Palmer*.
5. LEAM. Bishop's Itchington, *Bolton King*.
6. SOW. Combe Woods.
7. STOUR. Heathy land by Great Wolford Wood, abundant; Whichford Wood.
8. ALNE. Near Claverdon.
9. ARROW. Lane from Spennall Ash to Middletown; Wire Hill Wood, Sambourn; Oversley Wood.

**LITHOSPERMUM.** *Linn.***L. officinale**, *Linn.**Common Gromwell.*Top. Bot. 325. *Purt.* i. 112. Syme, E. B. vii. 95. 1101.

Native; woods, copses, and hedge banks. Rare and local. P. June-July.

First record, Purton, Midland Flora, 1817.

4. AVON. Lane towards Baly's Locks, Warwick, *Pritchett, Perry MS.* Whitnash; Myton, *Y. and B.* Lodge Woods. Salford Priors. *Caswell*. Gaydon! *Bolton King*. Lighthorne, *Miss Palmer*. Near Binton; Red Hill; Chesterton Wood; Harborough Magna.
5. LEAM. Ufton Wood, 1832, *Baynes, MS.* Itchington Holt, *Cross, Herb. Per.* Near Southam.
6. SOW. On an old wall near Kenilworth Castle, 1831, *Baynes, MS.*
7. STOUR. Near Lower Easington, 1886.
8. ALNE. Great Alne! *Purt.* i. 112. Drayton Bushes.
9. ARROW. Footpath leading from Alcester to Wixford, *Per. Fl.* 15. Oversley Wood! *Purt.* i. 112. Banks near Rose Hall, Oversley.

**L. arvense**, *Linn.**Corn Gromwell. Painting Root.*Top. Bot. 326. *Purt.* i. 112. Syme, E. B. vii. 96. 1102.

Colonist; corn and other cultivated fields. Local. A. May-June.

First record, the Author, 1870.

2. BLYTHE. Siden Hill, Hampton-in-Arden, *Rogers*. Cornfields, Knowle, 1870; cornfields Solihull.
4. AVON. Whitnash, *Y. and B.* Near Dunchurch and Little Lawford, *Rugby Sch. Rep.*, 1876. Lighthorne, *Miss Palmer*. Binton.
5. LEAM. Cornfields, Bascote Heath; Princethorpe.
6. SOW. Cornfields, between Meriden and Coventry.
8. ALNE. Cornfields, Billesley.
10. CHERWELL. Neglected field above Avon Dassett, very abundant.

# ECHIU. Linn.

**E. vulgare, Linn.**

*Viper's Bugloss.*

Top. Bot. 330. Purt. i. 109. Syme, E. B. vii. 88. 1095.

Native; sandy fields, old walls, and copses. Rare and local. B. July to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Oscott College Grounds, *Caswell*. Field on the outskirts of Sutton Park, near the town, *Grove*. Westwood Coppice, Sutton Park; sandy lane, Wyld Green.
2. BLYTHE. Sandy field, Marston Green; sandy field near Coleshill Pool, abundant; field near Gibbet's Hill, Coleshill.
4. AVON. On a wall at Salford, *Purt. i.* 110. Near Stratford, on the Bidford Road; stone quarries, Coton End and Woodloes, *Per. Fl.* 16. At the Scar, near Hampton Lucy. 1829; on the road leading from Milverton towards Blakedown Mill, 1829, *Perry, MS.* Trent Valley Railway near Rugby, 1867. Cawston, Hill Morton, *Rugby Sch. Rep.*, 1871. Near Blue Boar, *Rugby Sch. Rep.*, 1886. Lighthorne, *Bolton King*. Binton.
6. SOW. Kenilworth Ruins, *Perry, MS.*, 1823.
8. ALNE. Lime kilns at Grafton, *Purt. i.* 110.
10. CHERWELL. Field at Avon Dassett.

## ORD. XLIX. CONVULVULACEÆ.

### CALYSTEGIA. R. Br.

**C. sepium, R. Br.** *Convolvulus sepium, L.* *Great Bindweed.*

Top. Bot. 281. Purt. i. 116. Syme, E. B. vi. 86. 924.

Native; hedges, thickets, &c. Frequent, and distributed throughout the county. P. June to October.

First record, Rugby Sch. Rep., 1868, near Rugby.

### CONVOLVULUS. Linn.

**C. arvensis, Linn.**

*Small Bindweed.*

Top. Bot. 281. Purt. i. 116. Syme, E. B. vi. 85. 923.

Native; banks, waysides, fields. Common, and generally distributed. P. June to September.

First record, Rugby Sch. Rep., 1868.

### CUSCUTA. Linn.

[\*\* *C. Epilinum, Weihe.*

*Flax Dodder.*

Syme, E. B. vi. 89. 926.

Casual; on flax. Rare. A. July.

First record, Dr. Lloyd, *Herb. Per.*, 1837.

4. AVON. Bidford, *Dr. Lloyd, Herb. Per.* On flax, near Stratford-on-Avon, *Cheshire, Herb. Per.*]

**C. europæa, Linn.***Great Dodder.*

Top. Bot. 282. Syme, E. B. vi. 90. 927.

Native; bushy places. Very rare. A. July-August.

First record, Countess of Aylesford, Bot. Guide, 1805.

2. BLYTHE. Flax fields about Packington, *Aylesford, Bot. Guide*, 634.5. LEAM. Near the Windmill on the Tachbrook Road, *Herb. Per.* On vetches, Ufton.6. SOW. Observed one season on clover at Allesley, *Bree Cat.*, N. B. G. 185.7. STOUR. At Shipston-on-Stour, *Dr. Jones*, 1833. River banks, Honington Hall Gardens, seen one year only, *F. Townsend*.**C. Epithymum, Murr.***Lesser Dodder.*

Syme, E. B. vi. 91. 928.

Native; banks and waysides. Very rare. A. July-August.

First record, the Author, 1876.

4. AVON. On waysides near Dunchurch, 1881, *Trott*. Parasitical on *Thyme*, marly bank, near Bidford, 1876.[\* *C. Trifolii*, Bab.]*Clover Dodder.*

Syme, E. B. vi. 92. 929.

Alien; parasitical on clover, cultivated fields. Rare. A. July-August.

First record, Cheshire, *Herb. Perry*, 1850.

2. BLYTHE. Clover field at Springfield, Temple Balsall, very abundant, and destroying most extensive patches of the crop.

4. AVON. Clover fields near Rugby, *Blax*. On the Warwick Road from Stratford-on-Avon, *Cheshire, Herb. Per.* Myton; Moreton Morrell, *Y. and B. Lighthorne, Miss Palmer*. Kineton, 1876, *Bolton King*. Red Hill.6. Sow. Clover fields and gardens at Combe Abbey, *Cumming*.][\*\**C. hassiaca*, Pfeiff, occurred as an introduced plant in a field near Rugby, *Rugby Sch. Rep.*, 1869.]

## ORD. L. SOLANACEÆ.

**SOLANUM. Linn.****S. Dulcamara, Linn.***Bitter Sweet. Woody Nightshade.*

Top. Bot. 285. Purst. i. 129. Syme, E. B. vi. 95. 930.

Native; damp places, woods, hedges, ditch sides. Common, and generally distributed. P. June to September.

First record, Bree, *Mag. Nat. History*, 1829, Allesley.

**S. nigrum**, Linn.*Black Nightshade.*Top. Bot. 284. *Purt.* i. 130. Syme, E. B. vi. 96. 931.

Native; gardens, fields, and rubbish heaps. Local and rare. A. July to September.

First record, Bree, Cat., New Botanist's Guide, 1835.

4. AVON. In many places near Warwick! *Brom.* Garden weed, Alveston Heath.

The variety, with green fruit, occurs abundantly in a shrubbery at Warwick.

**ATROPA**. Linn.**A. Belladonna**, Linn.*Deadly Nightshade.*

(Top. Bot. 285.) Syme, E.B. vi. 100. 934.

Denizen; heaths and quarries. Very rare. P. July-August.

First record, Ray, Synopsis, *Solan. manicum multis*, seu *Bella Donna*, J. B., 1724.1. TAME. Sutton Coldfield, Warwick, *Ray, Syn. Ed.* 3. 266.2. BLYTHE. Near Solihull, where it was introduced from Beausale, *Herb. Per.*3. ANKER. Stone quarry near Oldbury; Atherstone! *G. Harris*, 1880.8. ALNE. Rowington, brought by Mr. Tibbetts, 1831, *Perry, MS.* Hedge-rows at Billesley, *Gumble, Perry, MS.***DATURA**. Linn.[\* *D. Stramonium*, Linn.*Thorn Apple.**Purt.* i. 127. Syme, E. B. vi. 103. 935.

Casual; banks and waste heaps. Rare. P. July.

First record, Purton, Midland Flora, 1817.

4. AVON. Salford: *Purt.* i. 127. Hatton, on the road to Grove Park, 1826, *Herb. Per.* Waste ground near Guy's Cliff, *Baynes, MS.* On a newly-formed bank of earth, in the Saltisford Brick Yard, Warwick, *Per. Fl.* 21.9. ARROW. Alcester, *Purt.* i. 127.]**HYOSCYAMUS**. Linn.**H. niger**, Linn.*Common Henbane.*Top. Bot. 284. *Purt.* i. 128. Syme, E. B. vi. 106. 936.

Native? banks and waste places. Very rare. B. June-July.

First record, Purton, Midland Flora, 1817.

4. AVON. Near Stratford, on the Warwick Road, *Per. Fl.* At the Scar, near Hampton Lucy, in plenty, 1828, *Perry, MS.* Salford, New Inn Road, *Caswell.* On a dung hill near the stone quarry, Coton End, Warwick, *Baynes, MS.* Cave's Inn, Watling Street, *Rugby Sch. Rep.*, 1889.8. ALNE. Great Alne, *Purt.* i. 128. Billesley, 1841, *Perry, MS.*9. ARROW. Wixford, &c., *Purt.* i. 128.

[\*\**Physalis Alkekengi*, Linn., is recorded as naturalised on waste ground at Foleshill, *Kirk, Phyt.* ii. 971. Garden weed near Warwick Priory, *Herb. Perry.*]

This a south European plant, and cannot be considered as more than a casual in the Warwickshire stations.

## ORD. LI. SCROPHULARINEÆ.

VERBASCUM. *Linn.*

**V. Thapsus**, *Linn.* *High Taper. Great Mullein.*

Top. Bot. 286. *Purt.* i. 125. *Syme, E. B.* vi. 110. 937.

Native; hedge banks and waste places. Rare and local. B. July to September.

First record, *Kirk* to Top. Bot., about 1858.

1. TAME. Hill Hook; railway bank near Wyld Green; near Curdworth Bridge; lane from Forge Mills to Water Orton; near Nether Whitacre; near Arley Wood.
2. BLYTHE. Road from Stonebridge to Coleshill; banks near Ryton End.
4. AVON. Salford Priors, *Caswell*. Lighthorne, *Miss Palmer*. Claypits, Dunchurch Road, near Rugby, *Rugby Sch. Rep.*, 1876.
6. SOW. Lane from Binley Common to Willenhall.
7. STOUR. Honington, *Newb.* Oxhill.
8. ALNE. Lapworth Street; lane from Morton Bagot to Wootton Wawen.
9. ARROW. Wixford, *Grove*. Near Alcester.

**V. nigrum**, *Linn.* *Black Mullein.*

Top. Bot. 287. *Syme, E. B.* vi. 114. 940.

Native; hedge banks, roadsides. Rare. P. July-August.

First record, *Perry, List*, 1817.

4. AVON. Between Ashow and Stoneleigh, *Perry*, 1817. As Hampton Lucy, plentiful on the roadsides, 1828; roadside between Milverton and Emscote, 1826; Wasperton, in the lane leading to the turnpike road, 1823, *Perry, MS.* Roadside between Leamington and Stoneleigh, *Baynes, MS.* Hatton Rock, *Y. and B.* Between Stratford-on-Avon and Easington.
5. LEAM. Between Rugby and Princethorpe, *Baynes, MS.* Near Leamington, *Herb. Per.*
6. SOW. Baginton, *Kirk, Phyt.* ii. 971.

[\*\**V. virgatum*, *With.*

Casual; in waste places. July-August. Near the Old Bridge, Warwick Castle, probably extinct now, *Brom.*]

[\*\**V. Blattaria*, *Linn.* *Moth Mullein.*

*Syme, E. B.* vi. 116. 942.

Casual; on hedge banks. Rare. B. July-August. Near Little Kineton, *Herb. Per.* Friz Hill, near Wellesbourne Hastings, *Brom.* Near Ipsley, *J. T. Slatter.*]

[\*\*Hybrid. *V. Thapso* × *Virgata*.

Casual ; quarries. Very rare. B. July-August.

4. AVON. Stone quarries near Warwick, *Brom.*]

### LINARIA. *Tournef.*

\***L. Cymbalaria**, *Mill.* *Ivy-leaved Toadflax. Mother of Thousands.*

Syme, E. B. vi. 133. 955.

Alien or denizen ; old walls and ruins. Local and rare. P. May to October. First record, Perry, List, 1817. *Antirrhinum Cymbalaria*, L.

1. TAME. Sutton Churchyard wall ; near Astley.
2. BLYTHE. Coleshill Rectory wall, abundant ; walls at Springfield, near Ansley ; Maxstoke Churchyard wall, abundant.
3. ANKER. Walls at Arbury Hall, *Kirk Phyt.* ii. 971. Walls near Oldbury Hall ; canal bridge near Hartshill, abundant ; walls, Polesworth and Austrey.
4. AVON. St. Mary's Churchyard wall, and Mello's Lane. Warwick, *Perry List*, 1817. On a wall at the back of a house at Tachbrook, 1833, *Perry, MS.* On the walls at Bilton House, near Rugby, *Baxter*, 1831. Coton House, near Rugby, *Kirk, Phyt.*, ii. 971. Tachbrook, *Y. and B. Lighthorne, Miss Palmer.*
5. LEAM. Walls at Thurlaston, *Rugby Sch. Rep.*, 1876.
6. SOW. New House, Radford (near Coventry) ; Whitley Abbey, *Kirk, Phyt.*, ii. 971.
7. STOUR. Honington Hall, in several places ! *Newb.* Walls, near Tysoe ; walls, Oxhill.
9. ARROW. Walls, Studley ; walls, Wixford.
10. CHERWELL. Old stone walls, near Farnborough, abundant.

In many of the above stations truly established, but never more than a denizen in Warwickshire.

**L. Elatine**, *Mill.* *Sharp-leaved Fluellin.*

Top. Bot. 296. *Purt.* i. 287. Syme, E. B. vi. 134. 956.

Native or colonist ; cultivated land. Rare and local. A. July to September. First record, Purton, Midland Flora, 1817. *Antirrhinum Elatine*, L.

2. BLYTHE. Sandy cornfield near School Rough, Marston Green.
4. AVON. Bidford, *Herb. Per.* Tachbrook, Moreton Morrell, *Y. and B.* Near Lighthorne, *Bolton King.* Woodloes, *Brom.* Brandon ; Drayton, near Stratford-on-Avon.
5. LEAM. Whitnash Fields, 1833. *Baynes, MS.* Field at Birdingbury, *Rugby Sch. Rep.*, 1876. Near Birdingbury, footway from Frankton ; Ufton.
6. SOW. Wyken Colliery, *Kirk, Herb. Per.*
7. STOUR. In a field by the Fosseyway, near Whatcote ; Lambcote, *Newb.*
8. ALNE. Grafton, Kinwarton, *Purt.* i. 287. Billesley, footroad to Wilmcote ; footway to Billesley Lane, small form.
9. ARROW. Exhall, near Alcester.

**L. spuria**, *Mill.* *Round-leaved Fluellin.*

Top. Bot. 295. *Purt.* i. 287. Syme, E. B. vi. 135. 957.

Colonist ; cultivated fields. Rare and local. A. July to September. First record, Purton, Midland Flora, 1817. *Antirrhinum spurium*, L.

4. AVON. Bidford ! *Bree, Mag. Nat. Hist.* iii. 165. Near Chesterton Windmill, 1833, *Herb. Per.* Tachbrook ; Moreton (Morrell) ! *Y. and B. Chadshunt, Bolton King.* Lighthorne, *Miss Palmer.* Near Little Lawford, *Rugby Sch. Rep.*, 1876. Stratford Heath ; Alveston Pastures ; Drayton, near Stratford-on-Avon ; field near Hatton.
5. LEAM. Field at Birdingbury, *Rugby Sch. Rep.*, 1877. Ufton.
7. STOUR. Whatcote, *Gork.* Lambcote, *Newb.* Honington.
8. ALNE. Grafton ! *Purt.* i. 288. Billesley, and footway from thence to Wilmcote.
9. ARROW. Exhall, near Stratford-on-Avon.

[\*\**L. purpurea*, Mill. Casual ; on old walls. Walls of Warwick Castle Park and other old walls, Warwick (probably extinct now), *Brom.*]

**\**L. repens*, Mill.** *Creeping Toadflax.*

Top. Bot. 297. Syme, E. B. vi. 139. 961.  
Denizen ; old walls. Very rare. P. July to September.  
First record, Bromwich, Topographical Botany.

8. ALNE. Old walls at Claverdon ! *Brom.*

The plant was well established there, but was merely an escape from some near garden.

***L. vulgaris*, Mill.** *Yellow Toadflax.*

Top. Bot. 297. *Purt.* i. 285. Syme, E. B. vi. 140. 962.  
Native ; hedge banks and borders of fields. Common, and generally distributed. P. July to September. Although this is a common plant on the whole, and has been found in every district, it is absent in some of the districts over large areas.  
First record, Perry, List, 1817, *Antirrhinum Linaria*, L., Ashow.

***L. viscida*, Moench.** *L. minor*, Desf.

Top. Bot. 297. *Purt.* iii. 366. Syme, E. B. vi. 143. 966.  
Colonist ; cultivated land and railway banks. Local and rare. A. June to September.  
First record, Perry, *Plantæ Selectæ*, 1820, *Antirrhinum minus*, L.

2. BLYTHE. Railway siding near Knowle Railway Station, *W. Mathews.*
4. AVON. Quarries about Bidford ! and Binton ! *Cheshire, Herb Per.* Garden at Coton House, Rugby, *Baxter, MS.* Cornfields near Newbold-on-Avon, *Rugby Sch. Rep.*, 1874. Highdown, *Y. and B.* Lighthorne, *Miss Palmer.* Redhill, near Alcester ; Brandon.
5. LEAM. In a field behind Union Parade, Leamington, *Per. Fl.* 52. Ufton.
7. STOUR. Garden weed, Honington Hall ! *Newb.* Whatcote, *Newb.*
8. ALNE. In cornfields, Grafton, *Purt.* iii. 366. Cornfields, bridle road to Wilmcote ; Billesley.
9. ARROW. In cornfields, Exhall, *Purt.* iii. 366. Wixford.

**ANTIRRHINUM.** *Linn.*

**\**A. majus*, Linn.** *Snapdragon. Calf-snout.*

*Purt.* i. 288. Syme, E. B. vi. 130. 953.  
Alien or casual ; ruins, walls, and railway banks. Rare. P. July to September.  
First record, Purton, Midland Flora, 1817.

1. **TAME.** Abundant on rocky banks at Arley Railway Station, springing up spontaneously year by year.
2. **BLYTHE.** Railway bank, between Hampton-in-Arden and Berkswell.
4. **AVON.** Salford, *Purt.* i. 288. On an old wall at the bottom of the garden, Lawford Hall, near Rugby, *Baxter, MS.* Stoneleigh Abbey, *Kirk, Herb. Per.* Westgate, Warwick! *Y. and B.* This is evidently an introduction here since Perry's days, as he makes no mention of it either in his *Plantæ Selectæ* or in his manuscript notes, and as he lived in Warwick he would scarcely have overlooked so conspicuous a plant.
6. **SOW.** Old town wall, Coventry, *Kirk, Herb. Per.* Railway banks, near Coventry.

**A. Orontium, Linn.***Corn Snapdragon.*

Syme, E. B. vi. 131. 954.

Colonist; cultivated lands. Very rare. A. July-August.

First record. Bromwich, *Herb. Perry*, 1854?

4. **AVON.** Railway cutting, near Myton, *Brom., Herb. Per.*
7. **STOUR.** A weed in the Rectory garden, Shipston-on-Stour, *Newb.*

**SCROPHULARIA. Linn.****S. aquatica, Linn. a. Balbisii, Hornem.***Water Betony.*Top. Bot. 294. *Purt.* i. 293. Syme, E. B. 120. 947.

Native; ditches, river banks, and damp places. Locally common. P. June to September.

First record, *Baxter, MS.*, 1844.

1. **TAME.** Sutton Park; Middleton; Kingsbury; Arley; &c.
2. **BLYTHE.** Coleshill Heath; Packington; Meriden Marsh; Olton; Earlswood.
3. **ANKER.** Hartshill; Oldbury; Amington; Shuttington; Mancetter, &c.
4. **AVON.** Common about Rugby, *Baxter, MS.* Salford Priors, *Caswell.* Near Stratford-on-Avon; Alveston Heath; Bidford; Binton; Brandon.
5. **LEAM.** Itchington; Radford Semele; Willoughby, &c.
6. **SOW.** Stoke; Sow Waste; Ansty, &c.
7. **STOUR.** Hornington, *Newb.* Ilmington.
8. **ALNE.** Little Alne; near Henley-in-Arden; Wawen's Moor.
9. **ARROW.** Wixford; Coughton; Spennall; &c.
10. **CHERWELL.** Shotswell; Warmington.

A yellow-flowered form of this was found at Easenhall, near Rugby, *Blox., Rugby Sch. Rep.*, 1875. The var. *b. cinerea*, Dum., occurs in South Warwickshire.

**S. umbrosa, Dum. S. Ehrhartii, Stev.**

Top. Bot. 294. Syme, E. B. vi. 122. 948.

Native; ditches and streams. Very rare. P. July-August.

First record, Bromwich, Topographical Botany.

4. **AVON.** Ditch at Chesterton; moat, near Chesterton Church; near Compton Verney; Moreton Morrell; Tachbrook, near Tachbrook Village, *Brom.*

**S. nodosa, Linn.***Figwort.*Top. Bot. 293. *Purt.* i. 292. Syme, E. B. vi. 123. 949.

Native; hedge banks and waste places. Common, and generally distributed. P. May to September.

First record, *Baxter, MS.*, Rugby, 1844.

**LIMOSELLA.** *Linn.*

**L. aquatica,** *Linn.* *Mudwort.*

Top. Bot. 298. Syme, E. B. vi. 146. 968.

Native; pools and ditches. Rare. A. July to September.

First record, Countess of Aylesford, Botanist's Guide, 1805.

2. BLYTHE. Coleshill Pool! *Aylesford, B. G.*, 1805.

3. ANKER. In waters near Arbury Hall, *Kirk, Phyt.* ii. 971.

6. SOW. Barwood Green, *Kirk*. Stoke Heath, *Kirk, Herb. Brit. Mus.*, 1854.

8. ALNE. Shrewley Pool, 1836, *Dr. Lloyd, Perry, MS.*

**DIGITALIS.** *Linn.*

**D. purpurea,** *Linn.* *Foxglove.*

Top. Bot. 295. *Purt.* i. 294. Syme, E. B. 127. 952.

Native; hedge banks, heathlands, ruins, railway banks, and woods. Common in the sandy soils of North Warwick. Local or rare in South Warwick. B. June to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park; Middleton Heath; Curdworth; Arley; Kingsbury, &c.

2. BLYTHE. Coleshill Heath; Marston Green; Packington; Solihull; Hampton-in-Arden; Earlswood, &c.

3. ANKER. Rye Hills; Shuttington; Austrey; Mancetter; Hartshill, &c.

4. AVON. Plentiful about Rugby! *Baxter, Br. Ph.* ii. 1831. Guy's Cliff! Milverton! Ashow; between Warwick! and Knowle, *Per. Fl.* 53. Lighthorne, *Miss Palmer.*

5. LEAM. Near Bubbenhall, *Perry, MS.*

6. SOW. Honiley! Haseley; Kenilworth Heath! *Perry, MS.*

8. ALNE. Lapworth; Wawen's Moor.

9. ARROW. Alcester Heath! Sambourn! *Purt.* i. 294. Morton Bagot; Coughton Park; Wire Hill.

**VERONICA.** *Linn.*

**V. hederæfolia,** *Linn.* *Ivy-leaved Speedwell.*

Top. Bot. 290. *Purt.* i. 52. Syme, E. B. vi. 149. 970.

Native or colonist; cultivated land and waysides. Common, and generally distributed. A. February to July.

First known record, Rugby School Report, 1868, near Rugby.

**V. polita,** *Fries.* *Grey Speedwell.*

Top. Bot. 290. Syme, E. B. vi. 150. 971.

Native or colonist; cultivated lands, gardens, &c. Local. A. January to October.

First record, *Perry, MS.*, about 1840; Saltisford.

1. TAME. Weed in garden, The Grange, Erdington.

2. BLYTHE. Field by Chelmsley Wood; fields by Bannersley Pool, near Coleshill; near Knowle Railway Station.

3. ANKER. Rye Hills; Austrey; Seckington; Mancetter.

4. AVON. Coventry Park ; Stoneleigh, *Kirk*, *Phyt.* ii. 191. Myton, *Cheshire, Herb. Per.* In the garden, Malvern House, Saltisford, *Perry, MS.* Rectory Garden, Harborough Magna ; Hatton ; Loxley ; Alveston Pastures ; Red Hill ; Binton ; Bidford.
5. LEAM. Ufton ; Marton Village, on the way for Princethorpe ; Cubbington ; fields by Ufton Wood ; Harbury Heath.
6. SOW. Ansty.
7. STOUR. Honington, *Newb.* Great Wolford.
8. ALNE. Bridle road, Wilmcote to Billesley ; fields near Bearley Cross.
9. ARROW. Exhall ; Wixford.
10. CHERWELL. Field near Farnborough.

**V. agrestis, Linn.***Green Speedwell.*

Top. Bot. 290. *Purt.* i. 52. Syme, E. B. vi. 151. 972.

Native or colonist ; cultivated lands, waysides, wall tops. Common, and generally distributed. A. February to November.

First record, Perry, MS. note, about 1840 ; Saltisford.

**V. persica, Poir. V. Buxbaumii, Ten.**

Top. Bot. 291. Syme, E. B. vi. 152. 973.

Colonist ; cultivated land, waysides, and banks. Locally common ; found throughout the county. A. January to November.

First record, Kirk, *Phyt.*, 1846, Coventry Park.

This plant appears to have spread throughout the county during the past twenty years.

**V. arvensis, Linn.***Wall Speedwell.*

Top. Bot. 288. *Purt.* iii. 4. Syme, E. B. vi. 155. 976.

Native ; banks, wall tops, fields, waysides. Common, and generally distributed. A. March to October.

First record, Rugby School Report, 1868 ; near Rugby.

**V. serpyllifolia, Linn.***Smooth Speedwell.*

Top. Bot. 288. *Purt.* i. 52. Syme, E. B. vi. 157. 978.

Native ; pastures, banks, waysides. Common, and generally distributed. P. April to July.

First record, Rugby School Report, 1868, near Rugby.

**V. officinalis, Linn.***Common Speedwell.*

Top. Bot. 289. *Purt.* i. 51. Syme, E. B. vi. 162. 984.

Native ; woods, heaths, banks, waysides. Common and local. P. May to July.

First record, Purton, *Midland Flora*, 1817.

1. TAME. Penns, *Grove.* Sutton Park ; Middleton Heath ; New Park, Middleton ; Kingsbury.
2. BLYTHE. Marston Green ; Solihull ; Hockley ; Earlswood.
3. ANKER. Stone Quarries, Hartshill ; Hartshill Hayes ; Oldbury ; Bentley Park ; Weddington ; Caldecote.

4. AVON. About Rugby, *Baxter, MS.* Green's Grove, Hatton; between Hatton and Warwick, *Perry Fl. 2.* Near Chesford Bridge, Stoneleigh! *Perry, MS.* Oakley Wood! *Baynes, MS.* Alveston Pastures.
5. LEAM. Ufton Wood, *Baynes, MS.*
6. SOW. Kenilworth Heath, *Perry, MS.* Combe Woods; Ansty, canal siding; Corley Rock.
7. STOUR. Honington, *Newb.* Wolford Wood. Gorsy land, near Great Wolford; Lower Eatington.
8. ALNE. Umberslade, 1871, *Grove.* Lapworth; Rowington; Austey Wood; Wootton Wawen.
9. ARROW. Dunnington! Coughton, *Purt. i. 51.* Coughton Park; Wire Hill, Sambourn; Alcester Heath; wood, near Wixford.
10. CHERWELL. Banks, Warmington.

**V. Chamædrys, Linn.**

*Germander Speedwell.*

Top. Bot. 290. *Purt. i. 50.* Syme, E. B. vi. 164. 986.

Native; woods, hedge banks, walls, &c. Common, and generally distributed. P. April to July.

First record, Rugby School Report, 1868; near Rugby.

With lavender coloured flowers, near Berkswell.

**V. montana, Linn.**

*Mountain Speedwell.*

Top. Bot. 289. Syme, E. B. vi. 166. 987.

Native; woods, shady banks. Rare and local. P. May-June.

First record, Bree, Magazine of Natural History, 1830.

1. TAME. Sutton Park, *Freeman, Phyt. i. 261.* Road from Saltley to Stechford, *Ich, Anal., 1837.* Trickle Coppice; New Park; Middleton Park; Shustoke; Drakenridge; Hurley; Arley Wood.
2. BLYTHE. Harding's Wood, near Maxstoke; Maxstoke, near the village; Kenwalsey; lane by Packwood House, abundant.
3. ANKER. Seas Wood, Arbury; Grendon, near Atherstone.
4. AVON. On rough ground, on the cross roads, near Chesford Bridge, Stoneleigh, *Perry, MS., 1833.* Hatton, *Y. and B.*
6. SOW. Woods at Beausale, near Wedgnoek Park, *Bree, Mag. Nat. Hist. iii. 163.* Combe Woods; Crackley Wood.
8. ALNE. Umberslade, 1871, *Grove.* Haywood; lanes near Baddesley Clinton.

**V. seutellata, Linn.**

*Marsh Speedwell.*

Top. Bot. 288. *Purt. i. 52.* Syme, E. B. vi. 167. 988.

Native; bogs, marshes, near pools and canals. Rare. P. July-August.

First record, Withering's Arrangement, 1801.

1. TAME. Sutton Park; Forge Mills, near Coleshill.
2. BLYTHE. Coleshill Bog! *Purt. i. 53.* Coleshill Heath, *Bree, Mag. Nat. Hist. iii. 163.* Coleshill Pool; Olton Reservoir.
3. ANKER. Ditches about Tamworth, *With. Ed. 4. ii. 15.* Margin of canal, Atherstone! *Blox. in Litt.*
4. AVON. In a field beyond Swan Meadow, on the footroad to Hampton-on-the-Hill from Warwick, *Per. Fl. 2.* Alveston Pastures, *Cheshire, Herb. Per. Chesterton, Miss Palmer.*
6. SOW. Windmill Field, Haseley, 1824, *Herb. Per. var. pubescens.* Corley Moor, *Kirk, Herb. Per.* Corley, pool near the Rectory.

7. STOUR. Near St. Dennis, *Newb.* Gorsy land, near Great Wolford.
8. ALNE. Shelfield, *Purt.* i. 53.
9. ARROW. Spennall, *Slatter.*

**V. Anagallis, Linn.***Water Speedwell.*Top. Bot. 288. *Purt.* i. 51. Syme, E. B. vi. 168. 989.

Native; ditches, rivers, and streams. Locally common. P. June to August. First record, Withering's Arrangement, 1787.

1. TAME. Sutton Park, *Freeman, Phyt.* 261. Water Orton; Middleton; Forge Mills.
2. BLYTHE. In the River Cole, Coleshill, *Grove.* Marshy land, near Packington Park; Elmdon; Bradnock's Marsh; Ryton End.
3. ANKER. Ditches about Tamworth, *With. Ed.* 2. i. 12. In the Anker, Rye Hills; canal, Amington; Anker, near Alvecote; pool, near Shuttington; canal, near Caldecote; pool, near Warton.
4. AVON. Nicholas Meadow, Warwick, *Perry List*, 1817. In a brickyard at Myton, 1831; in a ditch beyond the Race Stand, Warwick, 1835; Chesterton Mill Pool! 1835; in a pool, near Alveston Church, 1823, *Perry, MS.* Stoneleigh, *Y. and B.* Hogbrook Farm, Lighthorne, *Miss Palmer.*
5. LEAM. Stream near Dipper's Bridge, Harbury; pit by Ufton Wood; stream near Draycote, on the way for Thurlaston.
6. SOW. Arm of canal, Sow Waste.
7. STOUR. Near St. Dennis, *Newb.* Whatcote.
8. ALNE. Canal, near Shrewley Tunnel; canal, near Bishopston; cattle pool near Billesley Hall; stream near Preston Bagot.
9. ARROW. Ipsley, *Slatter.*

The glandular form occurs at Forge Mills, and in some of the other districts, but is rather rare.

**V. Beccabunga, Linn.***Brooklime.*Top. Bot. 289. *Purt.* i. 51. Syme, E. B. vi. 169. 990.

Native; marshes, ditches, canals, and muddy places. Common, and generally distributed. P. May to August.

First record, Rugby School Report, 1868, common round Rugby.

**EUPHRASIA. Linn.****E. officinalis, Linn.***Common Eye-bright.*Top. Bot. 292. *Purt.* i. 289. Syme, E. B. vi. 171. 991. 992.

Native; heaths, waysides, pastures, &amp;c. Locally common. A. June to September.

First record, the Author, 1866; Sutton Park.

So far as my own experience serves, nearly the whole of our Warwickshire plants would be included in the var. *b. E. nemorosa*, Pers. Var. *a.* I have never seen in this county. *E. nemorosa* (H. Mart.) is frequent in the Tame and Blythe districts, but remarkably rare in that of the Anker. I have also seen it in the Sow, Avon, Alne, and Arrow districts.

Var *gracilis* (Fr.) is more local; of this I have records as follows:—

2. BLYTHE. Balsall Common, *Brom.* Near Coleshill Pool, with *E. nemorosa*. Heathy footways near Knowle and Solihull.

4. AVON. Alveston Pastures.
  7. STOUR. Honington ! by the Fosseway ; Lambcote ! Shipston-on-Stour !  
All the plants I have seen when matured (not otherwise) would be called  
*E. gracilis*, Fr., by most English botanists, Rev. W. W. Newbould,  
MS. Eatington ; Alveston Heath.
  9. ARROW. Footways about Spennall and Morton Bagot.
- "*Euphrasia nemorosa*, H. Mart. To this I refer the plant which is common about Honington and the neighbourhood," *F. Townsend in Litt.*

## BARTSIA. Linn.

**B. Odontites**, Huds. *Euphrasia Odontites*, L. *Red Bartsia*.

Top. Bot. 292. Purst. i. 289. Syme, E. B. vi. 174. 993.  
Native ; fields, woods, waysides, heaths. Common, and generally distributed.  
A. June to September.  
First record, Ick, Remarkable Plants, 1838, with white flowers, Green Lanes and Small Heath.

*a. verna*, Reichb. Fields, rather common.

1. TAME. Sutton Park ; Middleton ; Shustoke.
2. BLYTHE. Marston Green ; Hampton-in-Arden ; Knowle.
3. ANKER. Hartshill ; Warton.
4. AVON. Moreton Morell, *Y. and B.* Lighthorne, *Miss Palmer*. Drayton, near Stratford.
5. LEAM. Fields, near Bourton and Draycote.
7. STOUR. Honington, *Newb.* Ilmington.
8. ALNE. Kingswood ; Wootton Wawen.
9. ARROW. Exhall, near Alcester.
10. CHERWELL. Near Farnborough.

Var. *b. serotina*, Reichb. Frequent in Avon basin ; local in Tame basin.

1. TAME. Middleton Heath.
2. BLYTHE. Coleshill Heath.
4. AVON. Chesterton ! *Y. and B.* Drayton, near Stratford ; Alveston Heath ; Harborough Magna.
5. LEAM. Whitnash, *Y. and B.* Harbury Heath ; waysides, near Ufton.
7. STOUR. Honington ; Brailes ; Lambcote, *Newb.* Ilmington.
8. ALNE. Wilmcote ; Drayton Moors, with white flowers.
9. ARROW. Exhall ; Alcester ; Spennall Ash.
10. CHERWELL. Near Wormleighton ; Farnborough.

## PEDICULARIS. Linn.

**P. palustris**, Linn. *Marsh Lousewort*.

Top. Bot. 293. Purst. i. 290. Syme, E. B. vi. 178. 996.  
Native ; marshes, damp meadows, and heathlands. Local. A. June to September.  
First record, Bree, Mag. Nat. Hist., 1829.

1. TAME. Sutton Park ; Middleton Heath.
2. BLYTHE. With white flowers, Coleshill Heath, *Bree, Mag. Nat. Hist. i.* 193. Coleshill, *Freeman, Phyt. i.* 262. Sheldon, *Gorle*. Coleshill Pool ; Marston Green ; Knowle.
6. SOW. Balsall Common ; Sow Waste Canal.
8. ALNE. Canal, near Lowson Ford ; Preston Bagot.

**P. sylvatica, Linn.***Heath Lousewort.*

Top. Bot. 293. Purt. i. 290. Syme, E. B. vi. 179. 997.

Native; damp heaths, waysides, pastures. Common. A. May to September.  
First record, Perry, MS., 1833.

1. TAME. Frequent. Sutton Park; Middleton; Kingsbury; Hurley; Arley.
2. BLYTHE. Frequent. Coleshill Pool; Olton Pool; Knowle; near Packwood Mill; Shirley Heath; Earlswood.
3. ANKER. Rare. Hartshill Quarries.
4. AVON. Milverton Heath, 1833, *Perry, MS.* Road to Hill Morton, *Baxter, MS.* Lighthorne, *Miss Palmer.*
5. LEAM. Harbury Heath.
6. SOW. Combe Woods, 1871.
7. STOUR. Heathland, Great Wolford.
8. ALNE. Kemp's Green; Chalcot Wood; pastures, near Bushwood; Lapworth; Alderhanger, near Tanworth.
9. ARROW. Footways, Sambourn; Wire Hill, Sambourn; Coughton Park.

**MELAMPYRUM. Linn.****M. pratense, Linn.***Cow-wheat.*

Top. Bot. 293. Purt. i. 291. Syme, E. B. vi. 184. 1003.

Native; woods, copses, and shady banks. Local. A. June to August.  
First record, Withering's Arrangement, 1801.

1. TAME. Woods at Edgbaston, *With. Ed.* 4. iii. 536; with white flowers, woods at Edgbaston, *Ed.* 7. iii. 730. Sutton Park! near the wagon road, *Ick, Anal.*, 1837. Middleton Woods; Kingsbury Wood; Arley Wood.
2. BLYTHE. Barber's Coppice, Hampton-in-Arden! *Rogers.* Chelmsley Wood; Clow's Wood, near Earlswood.
3. ANKER. Bentley Park; Gin Wood and Ironstone Wood, near Oldbury; banks, lane from Baxterley to Birch Coppice.
4. AVON. Green's Grove, Hatton, *Per. Fl.* 51. Oakley Wood, *Perry, MS.*
5. LEAM. Princethorpe Wood! *Rugby Sch. Rep.*, 1876. Ufton Wood, near Southam.
6. SOW. Tile Hill Wood; North Waste Wood, near Tile Hill; Corley Woods.
8. ALNE. Haywood.
9. ARROW. Woods about Studley! Sperrall Park, *Purt.* i. 291. Coughton Park; Rough Hill Wood; Sambourn.

A broad-leaved form, approaching *M. latifolium*, is occasional with the type in Sutton Park, Arley Wood, Ufton Wood, and Tile Hill Wood, but does not appear to me to be more than a form of *M. pratense*. *M. arvense*, Packington, recorded in Botanist's Guide, 1805, by the Countess of Aylesford, is doubtless a slip of the pen, as is also *M. sylvaticum*, Bree, Cat., recorded in the New Botanist's Guide, 1835. In both instances the *M. pratense* was doubtless the plant intended.

**RHINANTHUS. Linn.****R. Crista-galli, Linn.***Yellow Rattle.*

Top. Bot. 292. Purt. i. 285. Syme, E. B. vi. 180. 998.

Native; waysides, meadows, and pastures. Common, and generally distributed.  
A. May to July.

First record, Baxter, MS., Rugby.

ORD. LII. OROBANCHACEÆ.

OROBANCHE, Linn.

**O. major**, Linn. *O. Rapum*, Thuill. *Greater Broom-rape.*

Top. Bot. 299. *Purt* i. 295. Syme, E. B. vi. 193. 1010.

Native; parasitical on Broom, &c. Very rare. P. June-July.

First record, Perry, List, 1817.

2. BLYTHE. In a wood, N.-E. by E. of Packington Hall, *Sm.*, *Per. Fl.* 53. Bickenhill, *Bree in Purt.* iii. 367.

4. AVON. Entrance of the road from Wootton Field towards Ashow, *Perry, List*, 1817. On the side of the road between Guy's Cliff and Leek Wootton, near the turn for Ashow, *Perry, MS.* On gorse, Myton, *Brom.*

6. SOW. Allesley, *Bree, Purt.* iii. 367. Bush Common, Kenilworth, *T. Cox, Herb. Per.* "On the root of broom in Whitley Grove. This plant was abundant in 1845 and 1846, but this season (1847) I could only find a single specimen," *Kirk, Phyt.* ii. 971.

9. ARROW. Amongst some gorse by the side of the road from Pophills, *Purt.* i. 296, *note.*

**O. elatior**, Sutton. *Tall Broom-rape.*

Top. Bot. 299. Syme, E. B. vi. 196. 1013.

Ambiguity. Very rare.

First record, Bree, *Mag. Nat. History*, 1830.

2. BLYTHE. Coleshill; Bickenhill, *Bree, Mag. Nat. Hist.* iii. 165.

3. ANKER. Polesworth, Hoo Hills, rarely found there now, *Power, MS.*

6. SOW. Allesley, *Bree, Mag. Nat. Hist.* iii. 165.

Mr. Power gives no account of his plant nor of the host plant on which it grew, but I think it is probable that his plant was *O. major*, and that Bree's plant, was also *O. major*, but has been recorded by him under two different names.

**O. minor**, Sutton.

Syme, E. B. vi. 199. 1016.

Ambiguity; sandy fields. P. July-August.

First record, Cheshire, *Herb. Perry*, 1852.

4. AVON. Sandy field, near Luddington, *Cheshire, Herb. Per.* Near Myton, *Brom.*

6. SOW. Roadside, between Brinklow and Combe, *Blax., Rugby Sch. Rep.*, 1874.

LATHRÆA. Linn.

**L. Squamaria**, Linn. *Toothwort.*

Syme, E. B. vi. 189. 1006.

Native; thickets. Very rare. P. April.

Only record, J. Power, *MS.*, undated.

3. ANKER. In a thicket at Oldbury, near Atherstone, *Power, MS.*

## ORD. LIII. LENTIBULARIÆ.

## UTRICULARIA. Linn.

**U. vulgaris**, Linn.*Common Bladderwort.*

Top. Bot. 332. Syme, E. B. vii. 126. 1125.

Native; pools and canals. Very rare. P. July-August.

First record, Withering's Arrangement, 1787.

1. TAME. In shallow water on Birmingham Heath, *With. Ed.* 2. i. 19.
2. BLYTHE. Pit at Balsall, *Bree, Herb. Per.*
4. AVON. Pool on Commyn's Farm, near Stratford-on-Avon, *Cheshire, Herb. Per.* Old canals, near Rugby, *Blox., MS.*
6. SOW. Stoke Heath Canal, 1849, *Kirk, Herb. Per.* Canal at Longford, near Coventry, *Kirk.*

**U. minor**, Linn.*Lesser Bladderwort.*

Syme, E. B. vii. 128. 1126.

Native; pools. Very rare. P. July-August.

Only record, the Author, 1877.

1. TAME. In Powell's and Bracebridge Pools, and in a small marshy pool, near Bracebridge, Sutton Park; abundant, but barren in 1886 and 1889.

## PINGUICULA. Linn.

**P. vulgaris**, Linn.*Common Butterwort.*Top. Bot. 330. *Purt.* i. 55. Syme, E. B. vii. 123. 1121.

Native; bogs and marshes. Very rare. P. May to July.

First record, Bree, in *Midland Flora*, 1817.

1. TAME. *Pinguicula vulgaris*, Linn. Our excellent friend, Mr. Cameron, of the Birmingham Botanic Garden, first pointed out to us the hibernacula on Sutton Common, in Warwickshire, April 17th, 1835. On the 23rd of May of the same year, we paid a second visit to the Common, and found the *Eriophorum* in seed, with its beautiful silky heads waving in the breeze; the *Pinguicula* was then in full flower, &c., *Luxford in Phyt.* i. 15. Abundant in this place, 1886 and 1889.
2. BLYTHE. Bannersley Pool, *Bree in Purt.* i. 55. Coleshill Bog, *Purt.* i. 55. Chelmsley Wood, *Bree, Mag. Nat. Hist.* iii. 163.
6. SOW. Stivichall, near Coventry, *Kirk, Herb. Per.*

## ORD. LIV. VERBENACEÆ.

## VERBENA. Linn.

**V. officinalis**, Linn.*Vervain. Simpler's Joy.*Top. Bot. 302. *Purt.* i. 56. Syme, E. B. vi. 202. 1018.

Native; near churchyards and ruins. Rare. P. July to September.

First record, Perry, *List*, 1817.

3. ANKER. On Bow Bridge, Tamworth, 1833, *Sm.*, *Perry*, *MS.*
  4. AVON. Foot of Stank Hill, near Warwick, *Perry*, *List.* Roadside between Barford and Charlecote, *Sm.*, *Per. Fl.* 48. About Rugby, *Baxter*. Green's Grove, Hatton, *Herb. Per.* Salford Priors, *Caswell*. Ashow Churchyard, *Cox*. Chadshunt; Lighthorne, *Bolton King*. Appearing in newly-cut hedges, Binton and Stratford, *Cheshire*.
  5. LEAM. Starton Village; near Cubbington Church, 1833, *Baynes*, *MS.*
  6. SOW. Kenilworth Castle! *Y. and B.*
  7. STOUR. Tredington, by the Churchyard! *Newb.* This is just over the Warwickshire boundary.
  9. ARROW. Morton Bagot, *Slatyer*. Spennall Village, by the Arrow.
- Prior states that the common name, *Simpler's Joy*, is from the good sale they had for so highly esteemed a plant.—*Popular Names of British Plants*, 206.

## ORD. LV. LABIATÆ.

### MENTHA. *Linn.*

#### **M. rotundifolia**, *Linn.* *Round-leaved Mint.*

Top. Bot. 304. *Syme*, E. B. vii. 4. 1020.

Native? damp or marshy pastures. Very rare. P. August-September.  
First record, the Author, *Proc. Birm. Nat. Hist. Soc.*, 1870.

1. TAME. Abundant in a swampy field, near Boldmere, Sutton.

This is not the cultivated form, and at the time when it was first gathered it had every appearance of being native, gardens at that time being somewhat remote from the field in which it grew.

#### **M. alopecuroides**, *Hull.* *Horse Mint.*

*Syme*, E. B. vii. 5. 1021.

Denizen; near villages. Very rare. P. August-September.  
First record, Bromwich, about 1868.

4. AVON. In the old moat, near Chesterton Church! in abundance for two years, but now probably extinct, *Brom.*

Very sparingly represented when I saw it about 1872, and I believe that it has now ceased to exist. The only gardens anywhere near its habitat are small cottage gardens.

#### **M. sylvestris**, *Linn.* *Horse Mint.*

Top. Bot. 305. *Purt.* iii. 53. *Syme*, E. B. vii. 6. 1022.

Native; marshy and watery places. Very rare. P. August-September.  
First record, Purton, *Midland Flora*, 1817.

8. ALNE. Great Alne, on the side of the ford leading to Haselor, *Purt.* iii. 53.

*b. nemorosa* (Willd.). Very rare.

4. AVON. Near Sunrising, Edge Hill, *Bolton King*.

[\*\* *M. viridis*, *Linn.*, has been recorded from near Bilton, Rugby, 1833, *Baxter*, *MS.* Probably an escape from cultivation.]

**M. piperita**, *Huds. a. officinalis* (Hull). *Peppermint.*

Top. Bot. 305. *Purt.* i. 276. Syme, E. B. vii. 9. 1024-5.  
Denizen; damp places by ditches, streams, and canals. Rather rare. P.  
August-September.

First record, Withering's Arrangement, 1812.

1. TAME. Near Middleton Park, abundant, 1872; lane from Hams Hall to Curdworth Bridge.
2. BLYTHE. Four Ashes, near Solihull; Hockley, near Solihull.
3. ANKER. River at Tamworth, *With. Ed.* 5. iii. 612.
4. AVON. Myton! *Brom.* Canal, near Emscote, *Herb. Brit. Mus.* Light-horne, *Bolton King.*
7. STOUR. Honington, in abundance, pointed out by the *Rev. W. W. Newbould.*
8. ALNE. Side of the River Alne, *Purt.* i. 276. Lapworth; Kingswood.
9. ARROW. Coughton Mill, *Purt.* i. 276. Spennall Ash; lane from Spennall to Morton Bagot.

*b. vulgaris* (Sole). Rare.

2. BLYTHE. Balsall Common, *Brom.*, *Herb. Bab.* Four Ashes, near Solihull.
4. AVON. Warwick! *Y. and B.* I think this should be near Warwick, the habitat being on the side of the canal between Leamington and Warwick.

["*M. aquatica*, *With. Ed.* 4. ii. 512. Coughton Mill; Oversley Bridge," *Purt.* ii. 275, is an ambiguity that I have been unable to properly understand. It is probably a var. of *M. sativa*.]

**M. hirsuta**, *Linn.* *Hairy Water Mint.*

Top. Bot. 306. *Purt.* i. 275. Syme, E. B. vii. 13. 1030.  
Native; marshes, streams, and rivers. Common, and generally distributed.  
P. August-September.

First record, Baxter, MS., Rugby, 1831.

Var. *b. subglabra*, Baker. Local.

1. TAME. By Windley Pool, Sutton Park.
2. BLYTHE. Packwood.
3. ANKER. Stockingford.
5. LEAM. Snowford Bridge, near Long Itchington.
6. SOW. Broad Lane, near Berkswell.
8. ALNE. Lapworth.
9. ARROW. Spennall Ash.
10. CHERWELL. Canal, by Wormleighton Reservoir.

A slight variety, occurring at intervals with the type.

**M. sativa**, *Linn.* *Marsh Whorled Mint.*

Top. Bot. 306. Syme, E. B. vii. 15. 1031.  
Native; damp woods, marshes, and ditches. Local. P. August-September.  
First record, the Author, 1869.

*a. genuina* = *rivalis*, Lond. Cat. Local.

1. TAME. Sutton Park, casual, brought with ballast in making the railway  
Trickley Coppice, Middleton; Arley; Kingsbury Wood.

2. BLYTHE. Coleshill Pool ; Marston Green ; Hampton-in-Arden ; Shelly ; Monkspath.
3. ANKER. Bentley Park ; Parley Park ; canal, near Mancetter.
4. AVON. Emscote, *Y. and B.* Oakley ; Alveston Pastures.
5. LEAM. By the River Itchin, at Snowford Bridge.
6. SOW. Pit, near Rounsell Lane, Kenilworth ; Honiley, *Brom., Exch. Club Rep.*, 1879, labelled *M. paludosa*. Broad Lane, Berkswell.
7. STOUR. Great Wolford Heath, 1886.
8. ALNE. Near High Cross, Pinley Green.
9. ARROW. Oversley.
10. CHERWELL. Fields, near Farnborough.

*b. paludosa* (Sole). Rare.

Syme, E. B. vii. 15. 1032.

2. BLYTHE. Sharman's Cross, near Solihull ; Monkspath ; Shelly ; Beardsmore, near Hockley.
3. ANKER. Near Birch Coppice, Polesworth ; lane from Nuneaton to Mancetter ; near the lane to Leather Mill.
5. LEAM. Near Snowford Bridge ; Long Itchington.
6. SOW. Ditch, near Honiley, *Brom., Herb. Bab.*

*c. subglabra*, Baker. Rare.

2. BLYTHE. Coleshill Pool ; Packwood ; Spring Coppice, near Hockley.
3. ANKER. Birch Coppice, Polesworth ; Hartshill.
6. SOW. Beausale Common, *Brom., Exch. Club Rep.*, 1874.

**M. rubra, Sm.**

*Tall Red Mint.*

Syme, E. B. vii. 16. 1033.

Native or denizen ; drains and ditches. Rare. P. August-September.

First record, the Author, 1871.

2. BLYTHE. Monkspath, near Hockley ; very abundant 1871. Confirmed by *Mr. J. G. Baker.*
4. AVON. Luddington.
5. LEAM. Offchurch, *Y. and B.*
6. SOW. Near Haseley? *Brom.* Sow Waste Canal.

The plant from Luddington appears to be similar to the plant "gathered by Dr. Windsor at Partington, Cheshire. It has long white, fleecy hairs upon the teeth and upper part of the calyx, and the stem and veins of the under side of the leaves are similarly clothed." See "*Baker on English Mints*," p. 17.

**M. gracilis ? Sm.**

*Slender Red Mint.*

Purt. iii. 54. Syme, E. B. vii. 17. 1034.

Native ; watery places. Rare. P. August-September.

First record, Bree in Midland Flora, 1821.

6. SOW. Ted Pit, Allesley, *Bree in Purt.* iii. 54.

The *Mentha gentilis*, Purt. i. 276, "side of the River Alne, Oversley, near the bridge," appears to belong to this species, as he quotes E. B., plate 449, as representing his plant. I have searched for the plant in his localities, but without success.

*b. cardiaca*, Baker.

Syme, E. B. vii. 18. 1035.

6. SOW. (*M. pratensis*, Sole), near the Windmill Field, August, 1824, *Perry*, *MS.* Haseley Common, *Brom.*, *Exch. Club Rep.*, 1876.

8. ALNE. Shrewley Common, *Dr. Baker*, *Exch. Club Rep.*, 1877-8.

**M. gentilis**, Linn.

*Bushy Red Mint.*

Syme, E. B. vii. 19. 1037.

Native; watery places and river sides. Very rare. P. July-August.  
First record, Kirk, Herb. Perry, 1854.

6. SOW. Fillongley, *Kirk*, *Herb. Per.* Haseley? *Brom.*

*b. Wirtgeniana* (F. Schultz). Very rare.

4. AVON. Chadshunt, *Bolton King*.

**M. arvensis**, Linn.

*Corn Mint.*

Top. Bot. 306. Purt. i. 276. Syme, E. B. vii. 21. 1038.

Native; fields, woods, and waysides. Locally common. P. June to August.  
First record, Kirk, Herb. Perry, *M. agrestis*, 1854.

1. TAME. Sutton Park; Trickle Coppice; Kingsbury Wood, Arley.

2. BLYTHE. Coleshill Pool; Olton Pool (var. *præcox*); Box Trees, in drains  
(var. *præcox*); Earlswood; Solihull.

3. ANKER. Bentley Park; Hartshill Hayes.

4. AVON. Near Hatton (*præcox*), *Brom.* About Rugby, *Baxter*, *MS.*  
Oakley Wood.

5. LEAM. Ufton Wood.

6. SOW. Fillongley (*agrestis*), *Kirk*. Tile Hill; Corley Woods.

8. ALNE. Umberslade, *Grove*. Drayton Bushes; Snitterfield.

9. ARROW. Spennall; Coughton Park; Rough Hill, Sambourn.

The varieties of this plant have not been sufficiently discriminated in the field to give a full account of their distribution.

**M. Pulegium**, Linn.

*Pennyroyal.*

Top. Bot. 307. Purt. iii. 52. Syme, E. B. vii. 23. 1041.

Native; moist heaths. Rare. P. August-September.

First record, Withering's Arrangement, 1787.

1. TAME. Side of a pool at Erdington, *With. Ed.* 2. ii. 602.

6. SOW. Half-dry pits, Allesley, *Bree in Purt.* iii. 52. Corley Moor, *Kirk*.

The above-named districts have been so altered by building, drainage, and other like improvements, that probably this plant has been exterminated in all.

## LYCOPUS. Linn

**L. europæus**, Linn.

*Gipsywort.*

Top. Bot. 303. Purt. i. 56. Syme, E. B. vii. 2. 1019.

Native; damp woods, canals, and ditches. Local and rare. P. July to September.

First record, Bree, Cat. New Bot. Guide, 1835.

1. TAME. Sutton Park ; Middleton Heath.
2. BLYTHE. Coleshill Pool ; Meriden Marsh ; Hampton-in-Arden ; Knowle ; Solihull ; Shelly ; Earlswood ; Mere End, Balsall.
3. ANKER. Caldecote ; Mancetter ; Atherstone ; Birch Coppice, Polesworth ; Shuttington.
4. AVON. In the canal, near Rugby, *Blax., N. B. G. S.* Lighthorne, *Miss Palmer.* Canal, near Stratford-on-Avon.
5. LEAM. Pool, near Birdingbury Railway Station.
6. SOW. Sow Waste ; Sow Village ; Allesley.
7. STOUR. Honington, *Newb.* Near Shipston-on-Stour.
8. ALNE. Henley-in-Arden ; Snitterfield and Bearley Bushes ; lane, near Wilmcote ; Baddesley Clinton, &c.
9. ARROW. Coughton ; pit at Sambourn.
10. CHERWELL. Farnborough ; Warmington ; Wormleighton,

### ORIGANUM. *Linn.*

#### O. vulgare, *Linn.*

*Common Marjoram.*

Top. Bot. 307. Syme, E. B. vii. 29. 1045.

Denizen ; railway banks and banks in calcareous soils. Rare. P. July. August.

First record, Bromwich to Topographical Botany, Ed. 1.

4. AVON. Salford Priors, *Caswell.* Steeple Hill, near Bidford, probably an escape.
  6. SOW. Railway banks, near Coventry Railway Station.
- Not really wild in any of the stations given.

### THYMUS. *Linn.*

#### T. Serpyllum, *Fr.*

*Creeping Wild Thyme.*

Top. Bot. 307. Purst. i. 279. Syme, E. B. vii. 26. 1043.

Native ; heaths, heathy waysides, and dry banks. Local. P. July to September.

First record, Baxter, MS., Rugby, 1831.

1. TAME. Sutton Park, 1866 ; Middleton Heath ; Ballard's Green, Arley.
2. BLYTHE. Coleshill Heath, abundant ; Cornets End.
3. ANKER. Baddesley Common ; heathland, near Atherstone Outwoods.
4. AVON. About Rugby, but not common, *Baxter, MS.* Salford Priors, *Caswell.* Near Kineton ; Bardon Hill.
5. LEAM. Roadside from Marton Village to Princethorpe.
7. STOUR. Honington, *Newb.* Gorsy land, near Brailes ; hilly field by White House, Tysoe.
8. ALNE. High ground by Billesley Hall.
9. ARROW. Exhall, near Alcester.

#### T. Chamædrys, *Fries.*

*Larger Wild Thyme.*

Syme, E. B. vii. 27. 1044.

Native ; heaths and downs in calcareous and marly soils. Rather rare. P. July to September.

First record, Bromwich, Herb. Perry, 1867.

2. BLYTHE. Field above Coleshill Pool.

4. AVON. Hatton, *Brom.*, *Herb. Per.* Fields between Harborough and Cosford, *Blox.* Sherborne, *Brom.* Banks between Compton Verney and Kineton.
5. LEAM. Near Ufton, Southam, var. *alba*, *Bolton King.* Near Princethorpe.
6. SOW. Corley Moor.
7. STOUR. Gorsy land, near White House, Tysoe; Wimpstone Fields; bridle road from Compton Wynyates to Whatcote.
8. ALNE. Between Wroxall and Rowington; Yarningale Common! *Brom.* Wootton Wawen; banks near Crab Mill, Preston Bagot; near Billesley Hall, field-way to Wilmcote.
9. ARROW. Pastures, near Ipsley Mill.
10. CHERWELL. Canal bank, near Wormleighton Reservoir; Farnborough Field.

### CALAMINTHA. *Manch.*

#### C. Clinopodium, *Benth.* (*Clinopodium vulgare*, L.) *Wild Basil.*

Top. Bot. 311. *Purt.* i. 282. Syme, E. B. vii. 31. 1047.

Native; dry banks and waysides. Locally common. *P.* July-August. First record, Baxter, MS., Rugby, 1834.

1. TAME. Local. Tamworth Road, near Sutton; Hurley.
2. BLYTHE. Elmdon; lanes about Solihull; Hay Lane; Hockley; Hampton-in-Arden; Bickenhill.
3. ANKER. Baddesley Ensor; banks near Bramcote Hall; Gully Gap.
4. AVON. About Rugby, *Baxter, MS.* Newbold Road, near Rugby, *Rugby Sch. Rep.*, 1868, p. 58. Gaydon, *Bolton King.* Lighthorne, *Miss Palmer.* Warwick Road, near Warwick; Myton; Kineton; Alveston; Bidford.
5. LEAM. Canal siding, near Long Itchington; lanes about Offchurch; Princethorpe; Birdingbury.
6. SOW. Combe Fields.
7. STOUR. Lambcote, *Newb.* Oxhill; Tysoe; Brailes; Great Wolford; Atherstone-on-Stour; Eatington.
8. ALNE. Lanes about Rowington; Wootton Wawen; heathy pastures, Billesley.
9. ARROW. Spennall; Middletown; Rough Hill, Sambourn; Arrow; Alcester; Wixford; Exhall.
10. CHERWELL. Shotswell; Warmington.

#### C. arvensis, *Lam.* *Thymus Acinos*, L. *Calamintha Acinos*, Clairv. *Basil Thyme.*

Top. Bot. 309. *Purt.* i. 281. Syme, E. B. vii. 32. 1048.

Native; heath lands and pastures. Rare. *A.* July to September. First record, Perry, List, 1817.

1. TAME. Sutton Park.
2. BLYTHE. Footways, near Coleshill Pool; sandy pasture, Coleshill Heath.
4. AVON. Between Milverton and Ashow, *Perry, List*, 1817. Moreton Morrell, *Brom.* Lighthorne, *Miss Palmer.*
5. LEAM. Roadside between Leamington and Whitnash Mill, on the road to Tachbrook, *Baynes, MS.*
8. ALNE. Grafton, *Purt.* i. 281. Near Wilmcote, on the footway to Billesley! *Cheshire, Herb. Per.* Aston Cantlow, *Slatter.*
9. ARROW. Near Rolls Wood (Oversley), *Purt.* i. 281.

**C. officinalis**, *Mench.* *C. menthaefolia*, Host. *Calamint.*

Top. Bot. 310. *Purt.* i. 284. Syme, E. B. vii. 34. 1050-1.  
Native; dry hedge banks. Rare. P. June to September.  
First record, Withering's Arrangement, 1801.

1. TAME. *Melissa Calamintha*, L. On a bank at Saltley, *Ick*, 1838. Dry banks, lane from Shustoke to Maxstoke.
3. ANKER. Near Tamworth Castle, *With. Ed.* 4. iii. 528.
4. AVON. Warwick Castle Mount; roadside, Nunnery, at Abbot's Salford, *Perry, List*, 1817. Hatton, near Leamington, on the Warwick Road, *Per. Fl.* 51. Near Wasperton, 1830; near Stratford-on-Avon, *Herb. Per.* Chadshunt, *Bolton King*. Hedge outside Brandon Wood, roadside near Bretford, *Rugby Sch. Rep.*, 1889. Alveston Pastures.
6. SOW. On Kenilworth Castle, in plenty, *Baynes, MS.*
7. STOUR. Banks of railway, Atherstone-on-Stour, 1884-6.
8. ALNE. Wootton Wawen.
9. ARROW. Pophills Lane, Wixford, *Purt.* i. 284. Near Exhall; near Arrow Village.

*b. Briggsii*, Syme. Very rare.

4. AVON. Hatton, *Brom., Exch. Club Rep.*, 1879. Myton.
7. STOUR. Atherstone-on-Stour, with the type.
9. ARROW. Near Wixford, confirmed by Mr. Briggs.

This is only a slight variety merging into the type.

[\*\* *Melissa officinalis*, Linn.

*Common Balm.*

Syme, E. B. vii. 39. 1053.

Casual or escape; Radford Semele; Woodloes. *Brom.*]

**SALVIA.** *Linn.*

**S. Verbenaca**, *Linn.*

*English Clary.*

Top. Bot. 302. *Purt.* i. 57. Syme, E. B. vii. 42. 1056.

Native; dry banks, waysides, and old churchyards. Very rare. P. June to October.

First record, Withering's Arrangement, 1801.

3. ANKER. On the Castle Hill, Tamworth, *With. Ed.* 4. ii. 20.
4. AVON. Pigwell Lane, Warwick; Churchyard, Stratford! *Perry, List*, 1817. Bidford! near the church, *Purt.* i. 57. Warwick Park, *Y. and B.* Salford Priors, *Caswell*. Lighthorne, *Miss Palmer*. Binton Churchyard, 1878; Bidford Churchyard; waysides, Ashorne.
8. ALNE. Haselor, near the church, *Purt.* i. 57.

**S. pratensis**, *Linn.*

*Meadow Sage, or Clary.*

Syme, E. B. vii. 44. 1058.

Denizen; old pastures. Very rare. P. July.

Only record, Bolton King, *Herb. Brit. Mus.*, 1880.

4. AVON. Dry fields, east of Kineton, *Bolton King, Herb. Brit. Mus.* Chadshunt! *Bolton King in Litt.*

## NEPETA. Linn.

## N. Cataria, Linn.

## Catmint.

Top. Bot. 320. Purt. i. 279. Syme, E. B. vii. 38. 1054.  
Native ; pastures and dry banks. Rare. P. July to September.  
First record, Perry, List, 1817.

2. BLYTHE. Dry banks near Great Packington.
4. AVON. Between Stratford and Warwick, opposite Welcombe Hills ; between Warwick and Myton ! *Perry, List*, 1817. Moreton Morrell, *Y. and B.* Near Alveston, *F. Townsend*. Near Caves Inn, Watling Street, *Rugby Sch. Rep.*, 1889. Bardon Hill ; Binton ; abundant, Loxley Road, near Stratford-on-Avon.
5. LEAM. Near Leamington, on the road to Radford Semele, *Baynes, MS.* Roadsides near Marton Station and Village on the right hand side, facing Weston, *Rugby Sch. Rep.*, 1875. Ufton, *Bolton King*.
6. SOW. Near Whitley Common, *Kirk, Herb. Per.*
7. STOUR. On the Fosseyway, near Lambcote ; near Halford, *Newb.* Near Atherstone-on-Stour.
9. ARROW. Oversley, on hedge banks, by Mr. Edkin's Farm, *Purt. i.* 279.

N. Glechoma, Benth. *Glechoma hederacea*, L. Ground Ivy. Gill. Ale-hoof.

Top. Bot. 319. Purt. i. 268. Syme, E. B. vii. 40. 1055.  
Native ; banks, waysides, woods, and pastures. Common, and generally distributed. P. April to June.  
First record, Rugby School Report, 1868, near Rugby.

*b. parviflora*, Benth. Rare.

1. TAME. Furnace End, near Shustoke.
2. BLYTHE. Hampton-in-Arden.
5. LEAM. Banks of Leamington Canal, *Brom., Exch. Club Rep.*, 1879.

*c. hirsuta*, R. Rare.

2. BLYTHE. Dry bank near Hampton-in-Arden.
5. LEAM. Near Ufton, 1886.
6. SOW. Kenilworth, &c., *Y. and B.*
8. ALNE. Claverdon.
9. ARROW. Banks near Coughton Court.

## SCUTELLARIA. Linn.

## S. galericulata, Linn.

## Common Skull-cap.

Top. Bot. 321. Purt. i. 282. Syme, E. B. vii. 47. 1060.  
Native ; sides of rivers, canals, pools, and marshes. Locally common. P. June to August.  
First record, Withering's Arrangement, 1801.

1. TAME. Banks of the stews at Edgbaston, *With. Ed.* 4. iii. 530. Side of the aqueduct, Erdington Road, *Ich. Anal.*, 1837. Sutton Park.
2. BLYTHE. Bradnock's Marsh ! *Rogers.* Packington Park, *Grove.* Coles-hill Pool ; canal side, near Solihull and Knowle ; Elmdon ; Olton Reservoir ; Earlswood.
3. ANKER. Oldbury Reservoir ; marsh by Shuttington Bridge ; canal, near Caldecote and Mancetter.

4. AVON. Common about Rugby, *Baxter, MS.* Near Warwick Race Stand, *Per. Fl.* 51. Several places near Rugby, *Rugby Sch. Rep.*, 1876. Salford Priors, *Caswell.* Kineton, *Bolton King.* Old canal, near Little Lawford; canal, near Stratford-on-Avon.
5. LEAM. Banks of the Leam, Leamington, *Sm.*, *Per. Fl.* 51. Canal, near Radford Semele.
6. SOW. Ansty; canal, Sow Waste.
7. STOUR. Honington, *Newb.* Wimpstone Fields.
8. ALNE. Side of the River Alne, *Purt.* i. 282. Holywell Canal; canal, near Preston Bagot; canal, Rowington.
9. ARROW. Side of the Arrow! *Purt.* i. 282. River Arrow, at Broom.
10. CHERWELL. Wormleighton Reservoir.

**S. minor, Linn.** *Lesser Skull-cap.*

Top. Bot. 321. *Purt.* i. 283. Syme, E. B. vii. 48. 1061.  
Native; marshes, bogs, and by pools and streams. Rare. P. July-August.  
First record, the Countess of Aylesford, Bot. Guide, 1805.

1. TAME. Sutton Coldfield! *Rufford in Purt.* i. 283.
2. BLYTHE. Packington! *Aylesford, B. G.* 635. Coleshill! *Bree, Mag. Nat. Hist.* iii. 165. Bannersley Pool! *Herb. Per.* Coleshill Pool and Bog; Marston Green.
6. SOW. Clattyland Wood; Haseley, *Brom.*
8. ALNE. Near Umberslade, *Grove-*

**PRUNELLA. Linn.**

**P. vulgaris, Linn.** *Self-heal.*

Top. Bot. 321. *Purt.* i. 281. Syme, E. B. vii. 46. 1059.  
Native; woods, pastures, waysides, and heaths. Common, and generally distributed. P. June to October.  
First record, Bree, *Mag. Nat. Hist.*, 1829, with white flowers, at Allesley.

**MARRUBIUM. Linn.**

**M. vulgare, Linn.** *White Horehound.*

Top. Bot. 320. *Purt.* i. 273. Syme, E. B. vii. 51. 1064.  
Alien; roadsides. Very rare. P. July.  
First record, Purton, *Midland Flora*, 1817.

4. AVON. Near Bidford, on the Alcester Road, opposite Mr. Biddle's barn, *Purt.* iii. 364. Field on the Lawford Road, near Rugby, *Rugby Sch. Rep.*, 1867.
5. LEAM. Princethorpe, *Rugby Sch. Rep.*, 1886.
9. ARROW. Near Oversley Lodge, near Alcester, *Purt.* i. 274.

**STACHYS. Linn.**

**S. Betonica, Benth.** *Wood Betony.*

Top. Bot. 317. *Purt.* i. 272. Syme, E. B. vii. 54. 1067.  
Native; woods, banks, waysides. Locally common. P. June to September.  
First record, Perry, *List*, 1817. *Betonica officinalis*, L.

1. TAME. Middleton; Wishaw; Edge Hill and Kingsbury Woods; Minworth; Hurley, &c.

2. BLYTHE. Duke End, near Coleshill ; Packington ; Solihull ; Hampton-in-Arden ; Fulford and Forshaw Heaths ; near Earlswood, &c.
3. ANKER. Marsh, near Alvecote ; near Leather Mill, Caldecote. Rare in the Anker district.
4. AVON. Rugby, near the School Island, *Baxter, MS.* Green's Grove, Hatton, *Perry, List*, 1817. Lighthorne, *Miss Palmer.* Near Rugby, *Rugby Sch. Rep.*, 1876. Alveston Pastures ; Edge Hill.
5. LEAM. Common in Princethorpe Wood ; and in the meadows near Rugby towards Barby, *Rugby Sch. Rep.*, 1876. Cubbington ; Itchington.
6. SOW. Baginton Park, *Perry, List*, 1817. Lanes near Corley and Meriden ; Combe Fields.
7. STOUR. Compton Warren, near Brailes.
8. ALNE. Lapworth ; Austey Wood, Wootton Wawen.
9. ARROW. Spennall ; Middletown ; Alcester ; Oversley ; Arrow ; Ragley.

**S. palustris, Linn.***Marsh Woundwort.*Top. Bot. 318. *Purt. i.* 271. Syme, E. B. vii. 57. 1069.

Native ; canals, marshy places, and ditch sides. Rather local. P. June to September.

First record, Baxter, MS., 1842.

1. TAME. Shustoke.
2. BLYTHE. Duke Bridge ; Coleshill ; Maxstoke ; Meriden Marsh ; Bradnock's Marsh ; Knowle, &c.
3. ANKER. Rye Hills ; Shuttington ; Alvecote ; Burton Hastings.
4. AVON. Banks of the Avon, by Brownsover Fields, and other places near Rugby, *Baxter, MS.* Alveston, *Miss Palmer.* Binton.
5. LEAM. Near Birdingbury ; canal, near Offchurch.
6. SOW. Combe Fields ; Sow Waste.
7. STOUR. Near Oxhill.
8. ALNE. Canal, near Preston Bagot ; Bearley, canal bank.
9. ARROW. Ipsley, *Slatter.* Alcester.
10. CHERWELL. In drains, near Avon Dassett.

**S. ambigua, Sm. S. sylvatici-palustris, Wirtg.**

Top. Bot. 319. Syme, E. B. vii. 58. 1070.

Native ; drains and damp places near waysides. Rather rare. P. June to September.

First record, Bromwich. Herb. British Museum, 1876.

2. BLYTHE. Duke Bridge, near Coleshill ; with *palustris*, Hay Lane, Hockley ; Monkspath.
4. AVON. Alveston Pastures.
6. SOW. Beausale Common, *Brom., Herb. Brit. Mus.*
8. ALNE. Bearley, canal bank.
9. ARROW. Alcester.
10. CHERWELL. Drains, near Avon Dassett, with *palustris*.

A varying plant, in some states closely approaching *S. palustris* and in others *S. sylvatica*.**S. sylvatica, Linn.***Hedge Woundwort.*Top. Bot. 319. *Purt. i.* 271. Syme, E. B. vii. 59. 1071.

Native ; woods, banks, waysides, &amp;c. Common, and generally distributed. P. June to October.

First record, Perry, Herb. Perry, 1812.

**S. arvensis**, Linn.*Corn Woundwort.*

Top. Bot. 319. Syme, E. B. vii. 60. 1072.

Colonist; cultivated fields and railway banks. Rare. A. June to September. First record, Cheshire, Herb. Perry, 1854.

1. TAME. Railway banks, Sutton Park, 1877-8; near Shawberries Wood.
3. ANKER. Cornfields, near Hartshill Hayes.
4. AVON. Brandon, on railway banks, *Kirk*. Field, near Bilton, *Rugby Sch. Rep.*, 1886. Near Compton Verney, in cornfields.
7. STOUR. Near Honington, 1880.
9. ARROW. In a cornfield near Alcester, *Cheshire, Herb. Per.*, 1854. Cornfield, near Middletown, Studley.

[\*\**S. annua*, Linn. Syme, E. B. vii. 61. 1073. Casual; on new railway banks, Sutton Park, 1877.]

**GALEOPSIS**. Linn.**G. Ladanum**, Linn.*Red Hemp Nettle. Iron-wort.*

Top. Bot. 316. Purt. i. 277. Syme, E. B. vii. 62. 1074.

Native; cornfields, quarries, and waysides, in calcareous soils. Rare and local. A. June to September.

First record, Withering's Arrangement, 1801.

4. AVON. In a quarry two miles W. of Stratford-on-Avon, *With. Ed.* 4. iii. 508. Near Church Lawford, *Rugby Sch. Rep.*, 1872. Chesterton; Tachbrook, *Y. and B.* Lighthorne, *Miss Palmer*. Steeple Hill, Bidford; Binton; Red Hill; Drayton, near Stratford-on-Avon; this is probably Withering's station. Alveston Pastures.
5. LEAM. Harbury, *Grove*. Cornfield, footway from Birdingbury to Draycote, 1886; Ufton.
7. STOUR. Near Halford; Fosseway, near Lambcote, *Newb.*
8. ALNE. Wilmcote, in cornfields.
9. ARROW. Quarries, Exhall; cornfields, Wixford.
10. CHERWELL. Neglected cornfield, Avon Dassett.

Withering's plant appears to be the variety *b. canescens*. His description is "stems branched, thickest upward; calyx very hairy at the edges and on the outside." The plant I find at Drayton has the calyx more woolly than any other form I have seen in this county—the leaves are very narrow, linear lanceolate, but the stem is scarcely branched and is not thickened upwards. Two distinct forms occur in the county, one having large showy purple flowers, with long corolla tube, and hairy calyx, corolla, and stem; the other form has smaller, paler flowers, less hairy calyx, and stem sparingly hairy. Still neither form is, as I think, the var. *canescens*.

**G. speciosa**, Mill. *G. versicolor*, Curt.

Top. Bot. 317. Purt. iii. 566. Syme, E. B. vii. 65. 1077.

Colonist; cultivated land. Rare. A. July-August.

First record, Withering's Arrangement, 1801. *G. cannabina*, Willd., Roth.

1. TAME. Under a moist hedge at Birches Green, near Birmingham, *With. Ed.* 4. iii. 519.
2. BLYTHE. Near Coleshill, *Aylesford, B. G.*
4. AVON. In a turnip field at Milcote, near Stratford-on-Avon, *Purt.* iii. 566. Myton, *Y. and B.* Bank beyond Bilton, *Rugby Sch. Rep.*, 1880. Edge Hill, *Bolton King*.

5. LEAM. Whitnash, *Y. and B.*
7. STOUR. Honington, *Newb.*
8. ALNE. Grafton, *Herb. Per.*
9. ARROW. In a potato field near the late Mr. Purton's house, near Alcester, *Blox., New Bot. Guide Sup.*, 1837. Rolls Wood Farm, Oversley, Perry, *MS.*

**G. Tetrahit, Linn.** *Hemp Nettle.*

Top. Bot. 316. *Purt. i.* 277. Syme, E. B. vii. 66. 1078.  
 Native; woods, banks, and field borders. Common, and generally distributed.  
 A. June to September.  
 First record, Rugby School Report, 1868, near Rugby.  
 White flowered form var. *flore albo.* Local.

**LEONURUS. Linn.**

**\*L. Cardiaca, Linn.** *Motherwort.*

*Purt. i.* 285. Syme, E. B. vii. 68. 1080.  
 Denizen or alien; banks and waysides. Very rare. P. July-August.  
 First record, Purton, Midland Flora, 1817.

1. TAME. In a lane near Hams Hall, *Grove*, 1882. In a lane at Boldmere, Sutton.
4. AVON. Roadside a little beyond the Falcon Inn, Hatton, *Harris, Herb. Per.*
9. ARROW. King's Coughton, *Purt. i.* 285.

**LAMIUM. Linn.**

**L. amplexicaule, Linn.** *Henbit.*

Top. Bot. 314. *Purt. i.* 269. Syme, E. B. vii. 69. 1081.  
 Native; cornfields and waysides. Local. A. March to July.  
 First record, Perry, List, 1817.

1. TAME. Boldmere, near Sutton.
2. BLYTHE. Coleshill Heath; Marston Green; Solihull.
4. AVON. About Rugby, *Baxter, MS.* Near the Aqueduct, Emscote, *Perry, List*, 1817. Lighthorne, *Miss Palmer.* Walton Village; Bidford; Brandon.
5. LEAM. Walls at Thurlaston, *Rugby Sch. Rep.*, 1876. Near Offchurch; near Marton.
6. SOW. Fields at Stoke and Binley.
7. STOUR. Honington, *Newb.* Halford; Ilmington.
10. CHERWELL. Cornfield, Avon Dassett; allotments, near Farnborough.

[\**L. intermedium*, Fries.

Ambiguity; cultivated ground. Rare.

4. AVON. *Lamium amplexicaule* var. *intermedium*. A new variety growing in the allotments at the top of the hill on the Dunchurch Road. The flowers rarely open, but much seed is formed notwithstanding, *Rugby Sch. Rep.*, 1872, page 55, on the authority of *F. E. Kitchener, F.L.S.*)]

The description is too vague to allow even a surmise as to what this plant may have been; probably the small flowered state of *L. amplexicaule*.

**L. incisum, Willd.** *L. hybridum, Vill.*

Top. Bot. 315. Syme, E. B. vii. 71. 1083.

Colonist; cultivated land. Rare and uncertain. A. June to September.

First record, Baxter, MS., 1840.

2. BLYTHE. Field, near Stonebridge.

4. AVON. Oat field, near Holbrook Grange, just above the Avon, two miles from Rugby, *Baxter, MS.* Fields, near Whitnash! *Cross, Herb. Per.* Lighthorne, *Miss Palmer.*

6. SOW. Field by Fern Hill Wood! *Brom.*

**L. purpureum, Linn.**

*Red Dead Nettle.*

Top. Bot. 314. Purst. i. 269. Syme, E. B. vii. 72. 1084.

Native and colonist; banks, waysides, cultivated land and gardens. Common, and generally distributed. A. February to November.

First record, Perry, Mag. Nat. Hist. ii. 268, 1829. With white flowers.

The variety *decipiens* is recorded as a garden weed from Myton, Warwick, *Brom.* The specimens pointed out to me were mere forms of the type.

**\*L. maculatum, Linn.**

*Spotted Dead Nettle.*

Syme, E. B. vii. 73. 1085.

Alien; banks. Rare. P. June to August.

First record, Herb. Perry. Collector uncertain. Specimens named *L. hirsutum*, 1853.

1. TAME. Banks, Over Whitacre.

2. BLYTHE. Hampton-in-Arden! *Y. and B.* On banks in a lane from Coleshill to Maxstoke; banks, near Packwood.

4. AVON. Near Milverton (introduced), *C. Bailey, Record Club Report*, 1879, page 78. Myton.

6. SOW. Var. *b. hirsutum*, Allesley, *Herb. Per.*, 1853. *L. levigatum*, Allesley! *Brom. Herb. Brit. Mus.*, 1873. "I have it from Allesley, Warwick." *Syme in E. B. vii.*, page 74.

The plant at Allesley grew abundantly on the banks of a stream under the footroad from Allesley to Coventry. It is the var. with unspotted, green, triangular, cordate leaves, and is probably the *L. levigatum*, Reichb., *Icon. Bot.* t. 216. I believe it was introduced in this locality from Scotland by the late Rev. W. T. Bree.

**L. album, Linn.**

*White Dead Nettle.*

Top. Bot. 314. Purst. i. 270. Syme, E. B. vii. 74. 1086.

Native; banks and waste places. Common, and generally distributed. P. April to August.

First record, Rugby School Report, 1868, near Rugby.

**L. Galeobdolon, Crantz.**

*Yellow Archangel.*

Top. Bot. 313. Purst. i. 278. Syme, E. B. vii. 76. 1087.

Native; woods and dry banks. Locally abundant. P. April to June.

First record, Withering's Arrangement, 1801. "*Galeobdolon luteum*, *Huds.* Warwickshire. Frequent."

1. TAME. Saltley, *Ich, Anal.*, 1837. New Park, Middleton; Kingsbury; Hurley; Arley; Fillongley.
2. BLYTHE. Kinwalsey; Coleshill; Hampton-in-Arden; Knowle; Solihull; Shirley Heath; lane near Packwood.
3. ANKER. Bentley Park; Hartshill; Mancetter; Birch Coppice, Polesworth; Arbury Woods.
4. AVON. On the roadside between Emscote and Lillington, *Sm., Per. Fl.* Cunnery Grove and Castle Park, Warwick, *Perry, List*, 1817. Packmore Lane, near Warwick, *Perry, MS.* Dog Kennel Lane, Stoneleigh, 1832, *Baynes, MS.* Between Rugby and Hill Morton, *Baxter, MS.* Edge Hill! *Bolton King.* Red Hill, near Alcester.
5. LEAM. Ufton Wood! 1832, *Baynes, MS.*
6. SOW. Crackley Wood! *Per. Fl.* Common at Allesley! *Bree, New. Bot. Guid. Sup.*, 1837. Radford! Keresley! *Kirk, Phyt.* ii. 271. Combe Woods; near Berkswell; Hollyberry End; Corley.
7. STOUR. Barton-on-the-Heath.
8. ALNE. Rowington, canal siding; Billesley; Kemp's Green.
9. ARROW. Oversley! Rose Hall, *Purt.* i. 278. Banum's Wood, near Morton Bagot.
10. CHERWELL. Ratley, Edge Hill.

BALLOTA. *Linn.*

**B. nigra**, *Linn.* *a. fatida*, Lam. *Black Horehound.*

Top. Bot. 312. *Purt.* i. 274. Syme, E. B. vii. 52. 1065.

Native; hedge banks, waysides, and pastures. Locally common. P. July to September.

First record, Kirk, Topographical Botany, 1858.

1. TAME. Ward End, *Grove.* Boldmere; Erdington; Middleton Heath! Wishaw; Minworth; Kingsbury.
2. BLYTHE. Duke End; Coleshill; Marston Green; Hampton-in-Arden; Solihull; Berkswell.
3. ANKER. Tamworth; Seckington; Austrey; Burton Hastings; Nuneaton.
4. AVON. Common about Rugby and Hill Morton, *Baxter, MS.* Stratford-on-Avon; Alveston Pastures; Bidford; Salford Priors; Warwick; Stoneleigh; Wellesbourne Hastings.
5. LEAM. Near Offchurch; Honingham; Marton.
6. SOW. Allesley.
7. STOUR. Shipston-on-Stour! *Newb.* Halford; Atherstone-on-Stour.
8. ALNE. Wootton Wawen; Henley-in-Arden.
9. ARROW. Ipsley; Spennall; Wixford.
10. CHERWELL. Warmington; Avon Dassett.

With white flowers occasionally, as at Spennall, &c.

TEUCRIUM. *Linn.*

**T. Scorodonia**, *Linn.* *Wood Sage. Sage Germander.*

Top. Bot. 311. *Purt.* i. 273. Syme, E. B. vii. 85. 1093.

Native; woods, heaths, and dry banks. Locally common. P. July to September.

First record, Perry, List, 1817.

1. TAME. Sutton Park; New Park, Middleton; Kingsbury and Edge Hill Woods.

2. BLYTHE. Coleshill Heath; Marston Green; Packington; Hampton-in-Arden; Berkswell; Solihull; Shirley Heath; Forshaw Heath.
3. ANKER. Baddesley Common; Parley Park; Bentley Park; Hartshill; Polesworth; Shuttington; Austrey.
4. AVON. Between Stoneleigh and Wootton Field, &c., *Perry, List, 1817*. Between Emscote and Lillington, *Perry, MS.* Hatton Wood; between Hatton and Warwick, *Per. Fl. 48*. Roadside between Rugby and Hill Morton, *Baxter*. Oakley Wood! *Baynes, MS.* Waverley Wood, Stoneleigh; Alveston Heath, &c.
5. LEAM. Bainswood, Leamington, *Baynes, MS.*
6. SOW. Haseley Common; Kenilworth Heath! *Perry, MS.* Combe Woods! *Rugby Sch. Rep., 1876.* Corley Woods.
8. ALNE. Wilmcote! *Herb. Per.* Umberslade, *Grove.* Wawen's Moor, near Henley-in-Arden; Lapworth Street.
9. ARROW. Pophills Lane; about Pitchell; Ragley Woods! *Purt. i. 273.* Spennall; Ipsley; Sambourn; Coughton Park; Kingley.

AJUGA. *Linn.*A. reptans, *Linn.**Common Bugle.*Top. Bot. 312. *Purt. i. 270.* Syme, E. B. vii. 77. 1088.

Native; moist woods, waysides, and banks. Common, and generally distributed. P. May to August.

First record, Bree, *Mag. Nat. Hist.*, 1828, with white flowers at Coleshill.

## ORD. LVI. PLANTAGINEÆ.

PLANTAGO. *Linn.*P. major, *Linn.**Way-bread. Greater Plantain.*Top. Bot. 341. *Purt. i. 92.* Syme, E. B. vii. 167. 1162.

Native; pastures, waysides, and waste places. Common, and generally distributed. P. June to September.

First record, Dr. Lloyd, *Herb. Perry, 1835.*Var. *intermedia*, Gilib. Perhaps more common about Honington than *media*, *Newb.*P. media, *Linn.**Hoary Plantain.*Top. Bot. 341. *Purt. i. 92.* Syme, E. B. vii. 169. 1163.

Native; pastures, fields, and waysides, in marly and calcareous soils. Locally common. P. June to September.

First known record, Rugby School Report, 1868.

2. BLYTHE. Hampton-in-Arden; Catherine-de-Barnes Heath; canal bank, near Knowle.

4. AVON. Near Rugby, *Rugby Sch. Rep., 1868.* Moreton Morrell; Kineton; Alveston Heath; Bardon Hill; Binton; Bidford; Brandon.

5. LEAM. Willoughby; Birdingbury; Naptton-on-the-Hill; Ufton.

7. STOUR. Honington! Halford! *Newb.* Great Wolford; Oxhill; Tysoe.

8. ALNE. Lapworth Street; Great and Little Alne; Bearley; Billesley.

9. ARROW. Wire Hill, Sambourn; Oversley; Exhall; Kingley.

10. CHERWELL. Warmington; Avon Dassett; Ratley.

**P. lanceolata**, Linn.*Rib-grass.*

Top. Bot. 342. Purt. i. 92. Syme, E. B. vii. 170. 1164.  
Native; meadows, waysides. &c. Common, and generally distributed. P.  
April to September.

First record, Rugby School Report, 1868, near Rugby.

Var. *b. Timbali* (Jord). Syme, E. B. vii. 171. 1165.

Colonist; cultivated land. Rare. P. June to September.  
First record, the Author, 1880.

1. TAME. New embankment, Bracebridge Pool, Sutton Park, 1880.
4. AVON. As a weed in gardens, Myton, *Brom.* Alveston Heath, in allotment grounds.
5. LEAM. Fallow field, by Ufton Wood.

**P. Coronopus**, Linn.*Buck's-horn Plantain.*

Top. Bot. 342. Purt. i. 93. Syme, E. B. vii. 173. 1168.  
Native; heaths and heathy waysides. Rare and local. A. June to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Roadside, near Oscott College; Sutton Park; Middleton Heath.
2. BLYTHE. Coleshill Heath; Bannersley Rough; Bradnock's Marsh.
3. ANKER. Baddesley Common; Hartshill Stone Quarries; waysides, near Nuneaton.
6. SOW. Kenilworth Heath, 1830, *Herb. Perry*. Near Brinklow.
9. ARROW. Between Crab's Cross and Headley's Cross, *Purt.* i. 93.

[\*\**P. arenaria*, Linn. Casual in gardens, Myton, *Brom.* A native of Hungary, introduced with foreign seeds.]

**LITTORELLA**. Linn.**L. lacustris**, Linn.*Plantain Shore-weed.*

Top. Bot. 342. Purt. ii. 457. Syme, E. B. vii. 175. 1169.  
Native; in and about pools. Very rare. P. July-August.  
First record, the Countess of Aylesford, Bot. Guide, 1805.

1. TAME. Bracebridge Pool, Sutton Park, 1889.
2. BLYTHE. Coleshill Pool, *Aylesford, B. G.*, 636. Olton Reservoir, 1881, abundant; Earlswood Reservoir, 1884.

**ORD. LVII. ILLECEBRACEÆ.****SCLERANTHUS**. Linn.**S. annuus**, Linn.*Common Knawel.*

Top. Bot. 173. Purt. i. 209. Syme, E. B. vii. 181. 1174-5.  
Native; cultivated fields and heathlands. Rare and local. A. June to August.

First record, the Author, 1867.

1. TAME. Sutton Park, 1867; Middleton Heath; Kingsbury.
2. BLYTHE. Berkswell, *Grove*. Coleshill Heath, very abundant; Marston Green; Solihull; Great Packington.
3. ANKER. Chilvers Coton; field by Hartshill Hayes.
4. AVON. Myton; sandy fields, near Stoneleigh; Harborough Magna, 1875.
6. SOW. Meriden; Allesley; near Kenilworth.
7. STOUR. Near Brailes Hill, *Newb.* Great Wolford Heath; Barton-on-the-Heath.

Var. *b. biennis*, Reut. Very rare. Syme, E. B. vii. 182. 1175.

4. AVON. Sandy pastures at Milverton, *Brom.*, *Exch. Club Rep.*, 1877-8.

*S. perennis*. Top. Bot. 173, "Warwick, *Brom.*," is evidently a misnomer, *S. biennis* being the plant intended.

[\*\**Herniaria hirsuta*, Linn. Casual; near the tanyards, Kenilworth. Brought with foreign skins.]

[\*\**Amaranthus Blitum*, W. New Town, Coventry, *Kirk, Herb. Per.*]

[\*\**A. retroflexus*, Linn. Near Stratford-on-Avon, *Cheshire*. Kenilworth and Milverton, *Brom.*, *Herb. Per.*]

[\*\**A. deflexus*, W. Waste ground, Kenilworth, *J. B. Syme, Herb. Bab.*]

All these are casual weeds, of uncertain occurrence, and, in some of the cases, possibly incorrectly named.

## ORD. LVIII. CHENOPODIACEÆ.

[\*\**Blitum capitatum*, W. Casual; Warwick Castle Park, *Herb. Per.*]

[\*\**B. virgatum*, W. Garden weed, Stratford-on-Avon, *Cheshire, Herb. Per.*]

### CHENOPODIUM. Linn.

**C. polyspermum**, Linn. *a. spicatum*, Koch. *All-Seed Goose-foot.*

Top. Bot. 344. *Purt.* iii. 24. Syme, E. B. viii. 11. 1186.

Colonist; cultivated ground and cornfields. Rare. A. July to September.

First record, Perry, *Plantæ Selectæ*, 1820. *C. acutifolium*, Sm.

2. BLYTHE. As a garden weed, Berkswell, *Brom.*

4. AVON. In a newly made garden, Saltisford, Warwick, *Per. Fl.* 24. Common about Rugby, *Baxter, MS.* As a garden weed at Myton; Whitnash; Milverton; Budbrook, *Brom.* Near Brownsover Hall, *Rugby Sch. Rep.*, 1868. Brandon Wood, *Rugby Sch. Rep.*, 1886. Cornfields, Drayton, near Stratford-on-Avon, 1883.

7. STOUR. Honington, *Newb.*

8. ALNE. Kinwarton, *Purt.* iii. 24. Great Alne, *Cheshire, Herb. Per.*

9. ARROW. Alcester; Oversley, *Purt.* iii. 24. Ipsley.

**C. album, Linn.***Fat Hen. White Goose-foot.*

Top. Bot. 346. Purt. i. 136. Syme, E. B. viii. 13. 1188-90.

Native; cultivated ground and waysides. Common, and generally distributed as an aggregate species. A. July to October.

First record, the Author, 1869.

*a. candicans* (Lam.) Syme, E. B. viii. 13. 1188.

Occurs more or less frequently in all the districts, and is the most marked variety.

Var. *b. viride* (Linn.) Syme, E. B. viii. 14. 1189.

Occurs in all the districts, but is less frequent than the last. Apparently rare in district 8 (Alne).

Var. *c. paganum* (Reichb.) Syme, E. B. viii. 14. 1190.

Occurs in all the districts except 8 (Alne) and 9 (Arrow). Probably overlooked in these.

[\*\**C. ficifolium*, Sm. Casual; in skin yards, Kenilworth, *Brom.*][\*\**C. murale*, Linn. Casual; in skin yards. Kenilworth, *Brom.* Warwickshire, Bree, *N. B. G.*]**C. hybridum, Linn.***Maple-leaved Goosefoot.*

Top. Bot. 346. Purt. i. 135. Syme, E. B. viii. 17. 1193.

Alien; cultivated grounds and waste heaps. Very local. A. June to September.

First record, Perry, *Plantæ Selectæ*, 1820.

4. AVON. Amongst rubbish, on the road from Hampton-on-the-Hill to Warwick, *Per. Fl.* 24. In great plenty on a dung hill between Warwick and Emscote, 1832, *Baynes, MS.* Warwick, *W. G. Perry*, 1829, *Herb. Bab.* Emscote; Milverton; Myton, *Brom.* Abundant near the Avon, Loxley Road, Stratford-on-Avon.

5. LEAM. Leamington, *Y. and B.*9. ARROW. Alcester, in cultivated ground, *Cheshire, Herb. Per.* Near Oversley Bridge.**C. urbleum, Linn.**

Top. Bot. 344. Purt. i. 136. Syme, E. B. viii. 18. 1194.

Colonist; railway banks and waste places. Rare or overlooked. A. August.

First record, Bree, in *New Botanist's Guide*, unlocalised, 1835.

1. TAME. Railway banks, Sutton Park; in waste places, near Hoare Park, Nether Whitacre.

Recorded as common in the Midlands in Purton's *Midland Flora*.**C. rubrum, Linn.***Red Goosefoot. Sowbane.*

Top. Bot. 345. Purt. i. 136. Syme, E. B. viii. 22. 1196.

Colonist; waste heaps and cultivated land. Rare. A. July to September.

First record, Baxter, *MS.*, 1842.

2. BLYTHE. Cultivated ground, Hampton-in-Arden, *Rogers*.
  4. AVON. Common about Rugby, *Baxter, MS.* Brandon Lane, *Kirk, Herb. Per.* Myton, *Y. and B.* On waste heaps, near Milverton Station; Chesterton, *Brom.* Lighthorne, *Bolton King.* Drayton, near Stratford-on-Avon.
  5. LEAM. Whitnash Brook, *Brom.*
  6. SOW. Near the Reservoir on the Radford Road, near Coventry, *Kirk, Herb. Per.*
  7. STOUR. Common in the parish of Honington, in dung yards, *F. Townsend.* Hilly pasture, by White House, near Tysoe; in abundance on dung heaps in a field, Wimpstone Fields. Stunted form abundant in Crims-cote Fields.
  9. ARROW. Oversley.
- Var. *b. pseudo-botryodes*, Wats.
8. ALNE. Shrewley Pool, near Hatton, *Brom.*
- I have not seen this.

**C. Bonus-Henricus**, Linn. *Wild Spinach. Allgood. Good King Henry.*

Top. Bot. 347. Part. i. 135. Syme, E. B. viii. 24. 1199.  
Denizen; churchyards, banks, and waste places. Local. P. June to September.

First record, Perry, MS., 1839.

1. TAME. Lane from Water Orton Railway Station to Minworth.
2. BLYTHE. Near Temple Balsall, *Perry, MS.* Hampton-in-Arden; Marston Green, near the village; Knowle, by the churchyard.
4. AVON. Hill Morton, *Baxter, MS.* Near Blakedown Mill, Milverton, *Baynes, MS.* Leek Wootton, *Herb. Per.* Lighthorne, *Miss Palmer.* Tachbrook, Warwick, *Brom.* Salford Priors! *Caswell.* Whitnash, *Y. and B.* Near Sunrising, Edge Hill.
5. LEAM. Weston; Princethorpe; Stockton; Birdingsbury.
6. SOW. Kenilworth, *Herb. Per.* Tile Hill.
7. STOUR. Barcheston, *Newb.*
9. ARROW. Studley.
10. CHERWELL. Near the church, Warmington.

**ATRIPLEX.** *Tourne.*

**A. patula**, Linn. *Spreading Orache.*

Top. Bot. 349. Syme, B. B. viii. 29. 1202.

Native; cultivated land and waysides. Common, and generally distributed. A. July to September.

First record, Baxter, MS., 1831, near Rugby.

Var. *b. erecta*, Huds. Rare, or overlooked.

4. AVON. Milverton, *Brom.*

Of this I have no notes from any North Warwickshire district.

Var. *c. angustifolia*, Sm.

Common on railway banks and in cultivated ground. A. July to September.

**A. hastata**, Linn. *A. patula*, Sm. *A. Smithii*, Syme.

Top. Bot. 349. Syme, E. B. viii. 33, 1205.

Native; waste heaps, fields, waysides, and railway banks. Local. A. July to September.

First record, Baxter, MS., 1831, near Rugby.

1. TAME. Cultivated land, The Grange, Erdington.

2. BLYTHE. Sandy fields, Coleshill Heath.

3. ANKER. Near Shuttington; near Atherstone.

4. AVON. Common about Rugby, *Baxter, MS.* Common about Warwick, *Brom.*

10. CHERWELL. Near Wormleighton Reservoir.

**A. deltoidea**, Bab.

Top. Bot. 349. Syme, E. B. viii. 31, 1204.

Colonist; waste heaps and arable land. Local. A. August to October.

1. TAME. Waste heaps on the roadside between Ansley and Over Whitacre.

2. BLYTHE. Green Lanes, Coleshill.

4. AVON. Myton, *Y. and B.* Warwick, *Brom.* Field at Drayton, near Stratford-on-Avon.

5. LEAM. Leamington, *Brom.*

6. SOW. Near Tile Hill Wood; on the road to Coventry.

[\*\**Chenopodium opulifolium*, Schrad. Casual; weed by road sides, Sutton Park; and on waste places, near Milverton.]

## ORD. LIX. POLYGONACEÆ.

### POLYGONUM. Linn.

**P. Convolvulus**, Linn.

*Black Bindweed.*

Top. Bot. 356. Purt. i. 198. Syme, E. B. viii. 61, 1227.

Native; woods, waysides, cultivated fields and gardens. Common, and generally distributed. A. June to October.

First record, Perry, Herb. Perry, 1812.

**P. aviculare**, Linn.

*Common Knot Grass.*

Top. Bot. 356. Purt. i. 198. Syme, E. B. viii. 63, 1229-31.

Native; cultivated land and cornfields, waysides, and heathlands. Abundant throughout the county. A. June to October.

First record, Withering's Botanical Arrangement, 1787.

Var. *a. agrestinum* (Jord). Local.

Found throughout the county, but more frequent in marly and calcareous soils than in sandy or peaty soils.

Var. *b. vulgatum*, Syme.

Common, and generally distributed throughout the county on heaths, waysides, and waste places.

Var. *c. arenastrum* (Bor.). Local. Heathy and sandy footways.

1. TAME. Abundant near Sutton Park.
2. BLYTHE. Coleshill Heath; near Hampton-in-Arden; footway from Henfield to Temple Balsall; canal side, near Solihull.
3. ANKER. Sandy footways, near Bramcote Hall.
4. AVON. Milverton, *Brom.* Alveston Pastures.
6. SOW. Lanes, about Allesley Village.
7. STOUR. Honington! Shipston-on-Stour, *Newb.* Near Great Wolford.
8. ALNE. Lowson Ford.
10. CHERWELL. Near Warmington.

Var. *d. microspermum* (Jord). Rather rare.

2. BLYTHE. Roadside, between Hampton-in-Arden and Meriden.
3. ANKER. Fields, near Oldbury.
4. AVON. Myton, *Brom.* Alveston Heath.
6. SOW. Kenilworth, *Brom.*
7. STOUR. Honington! Shipston-on-Stour! *Newb.* Cornfields and waysides, Easington.

Var. *e. rurivagum* (Jord.). Rather rare.

2. BLYTHE. Cornfields, near Cornets End, Berkswell.
4. AVON. Hatton, *Brom.*, *Herb. Bab.* Myton; Whitnash; Chesterton, *Brom.*
5. LEAM. Abundant, Itchington Holt; cornfield, near Bourton.
6. SOW. Cornfields, Sow Waste, *Kirk, Herb. Bab.* Near Kenilworth, *Brom.*
7. STOUR. Halford; Honington, *Newb.*

**P. Hydropiper, Linn.** *Water Pepper.*

Top. Bot. 355. Purl. i. 199. Syme, E. B. viii. 70. 1234.  
Native; ditches, marshes, damp woods, and waysides. Common, and generally distributed. A. July to October.  
First record, Perry, *Herb. Perry*, 1812.

**P. minus, Huds.**

Syme, E. B. viii. 72. 1235.  
Native; wet meadows. Very rare. August.  
Only record, Bromwich, 1887.

4. AVON. Wet meadows, Hill Wootton, *Brom.*

**P. Persicaria, Linn.** *Common Persicaria.*

Top. Bot. 355. Purl. i. 199. Syme, E. B. viii. 74. 1237.  
Native; cultivated fields, roadsides, and waste places. Common, and generally distributed. A. June to September.  
First record, Perry, *Herb. Perry*, 1812.

Var. *b. elatum*, Gr. et Godr. Syme, E. B. viii. 74. 1238. Rare, or overlooked.

5. LEAM. By water, near Leamington, *Brom.*
6. SOW. By water, Haseley Reservoir, *Brom.*

**P. lapathifolium**, Linn. *P. pallidum*, With. *Glandular Persicaria*,

Top. Bot. 354. Purt. i. 200. Syme, E. B. viii. 75. 1239.

Native; damp woods, cultivated land, and waste places. Rather local. A. July to September.

First record, Ick, Remarkable Plants, 1838.

1. TAME. Railroad, near Saltley, *Ick, Remarkable Plants*, 1838. Sutton Park; Middleton.
2. BLYTHE. Coleshill Heath; Marston Green; Bradnock's Marsh; Olton Pool, near Earlswood; Balsall Street.
3. ANKER. Oldbury Reservoir; Hartshill; Shuttington.
4. AVON. Rugby, *Baxter, MS.* Near Dunchurch and Clifton, *Rugby Sch. Rep.*, 1887. Warwick; Whitnash, *Brom.* Alveston Heath.
5. LEAM. Harbury Heath.
6. SOW. Fields, near Crackley Wood; Sow Waste.
7. STOUR. Brailes; St. Dennis, *Newb.*
8. ALNE. Wilmcote.
9. ARROW. Fields, near Old Park, Alcester.

**P. maculatum**, Dyer and Trim. *P. nodosum*, Pers. (Bab.)

Top. Bot. 355. Syme, E. B. viii. 76. 1240.

Native or denizen; railway banks and waste places. Rare. A. July to September.

First record, Kirk, Topographical Botany, 1858.

1. TAME. Abundant on newly made railway banks, Sutton Park, 1878.
4. AVON. (*P. nodosum*.) Myton Grange Fields, *Herb. Per.* On mud from a bank at Myton, *Brom.* Meadow, Hill Wootton, *Brom.*

**P. amphibium**, Linn. *Amphibious Bistort.*

Top. Bot. 354. Purt. i. 200. Syme, E. B. viii. 77. 1241-42.

Native; rivers, streams, and pools. Locally abundant. P. June to September.

First record, Purton in Midland Flora, 1817.

1. TAME. The stream behind Avern's Mill, Edgbaston, *Ick, Remarkable Plants*, 1838. Rotton Park Reservoir, *Grove.* Pools in Sutton Park; pool, near New Park.
2. BLYTHE. Bannersley Pool, near Coleshill; Coleshill Pool; River Blythe, near Solihull; Earlswood.
3. ANKER. Oldbury Reservoir; Griff Hollows.
4. AVON. Chesterton Mill Pool, 1835, *Perry, MS.* Pool, near St. Nicholas Church, Warwick, *Per. Fl.* Floating on the Avon, at Bidford Grange, *Purt. i. 200.* River Avon, at Myton, *Brom.* Salford Priors, *Caswell.* Canal, between Newbold and Harborough! *Rugby Sch. Rep.*, 1876. Lighthorne, *Miss Palmer.*
5. LEAM. Napton Reservoir.
6. SOW. Windmill Field, Haseley, 1834, *Perry, MS.* Pool at Combe Abbey.
7. STOUR. In the Stour, at Honington, *Newb.*
8. ALNE. In the Alne, at Kinwarton, *Purt. i. 200.*
9. ARROW. Pit in Sambourn Lane.
10. CHERWELL. Wormleighton Canal; Farnborough Pool.

The variety, *b. terrestre*, Leers, occurs constantly with the type, and appears to be little more than a mere form due to surroundings.

**P. Bistorta**, Linn. *Snake Weed. Red Legs.*

Top. Bot. 353. Purt. i. 197. Syme, E. B. viii. 79. 1243.

Native; old pastures. Locally abundant. P. May-June.

First record, Ray, *Bistorta magna*. I have lately found it in some meadows at Tamworth, in Warwickshire. *Catalogus*, 1670.

1. TAME. Garlick Meadows, Erdington, *With. Ed.* 5. iii. 494. Between Washwood Heath and Gravelly Hill.
2. BLYTHE. Near Packington, *Aylesford, B. G.* 685. Balsall, *Brom.* Near Coleshill; Solihull; Knowle and Shirley, in meadows.
3. ANKER. In meadows at Tamworth! Ray, *Cat., Ed.* 2. p. 44. River, by Bow Bridge, Tamworth, *Baynes, MS.* Weddington.
4. AVON. River side, Guy's Cliff, 1831, *Baynes, MS.* Myton, *Y. and B.*
6. SOW. Allesley, *Bree, Mag. Nat. Hist.* iii. 164. Kenilworth, *Brom.*
8. ALNE. Croft, near Claverdon; orchard, Lapworth, Boot Inn, *Perry, MS.* Rowington! *Y. and B.* Henley-in-Arden; Holywell; Lowson Ford; Finwood.
9. ARROW. In a field at Oversley, *Purt.* i. 197.

**FAGOPYRUM.** Gaert.**\*F. esculentum**, Moench. *Polygonum Fagopyrum*, L. *Buckwheat.*

Purt. i. 200. Syme, E. B. viii. 59. 1226.

Casual and colonist; cultivated ground and railway banks. Rare and uncertain. A. July-August.

First record, Purton, *Midland Flora*, 1817.

1. TAME. New railway banks, Sutton Park, abundant, 1878.
2. BLYTHE. Berkswell, *Brom.* Coleshill Heath; cornfield, Marston Green.
4. AVON. In the Park, near Warwick Castle, *Per. Fl.* 37. Stoneleigh; Milverton, *Brom.*
6. SOW. Honiley, *Brom.* Kenilworth, *Dr. Baker*, 1880, *Herb. Bab.*
8. ALNE. Wilmcote, *Herb. Per.*
9. ARROW. Ridgeway, *Purt.* i. 201.

This plant is so frequently sown for feeding game, that it has probably been introduced by man's agency in all the stations above cited.

**RUMEX.** Linn.**R. conglomeratus**, Murr. *R. acutus*, Linn., Sm. *Sharp Dock.*

Top. Bot. 359. Purt. i. 185. Syme, E. B. viii. 40. 1210.

Native; roadsides, waste heaps, banks, &c. Common, and generally distributed. P. July to September.

First record, the Author, 1869.

Apparently very local in the district around Shipston-on-Stour, *Newb. in Litt.*

**R. sanguineus**, Linn.

Top. Bot. 359. Purt. iii. 33. Syme, E. B. viii. 41. 1211.

Native; woods, waysides, waste heaps. Rare. P. July-August.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. A weed in a garden at Aston for two or three seasons.
4. AVON. A garden weed at Warwick and Myton, *Brom.* Lighthorne, *Miss Palmer.*
5. LEAM. In a garden opposite the Old Well, Leamington, *Per. Fl.* 32.
9. ARROW. Lane from Redditch to Beoley.

Var. *b. viridis* (Sibth.) Locally common.

1. TAME. Sutton Park ; New Park, Middleton ; lanes about Arley.
2. BLYTHE. Lanes about Hampton-in-Arden ; Solihull ; Olton ; Earlswood.
3. ANKER. Bentley Park ; Hartshill Hayes ; Weddington.
4. AVON. About Rugby, *Baxter, MS.* Moist ground, near Chesford Bridge, 1833, *Perry, MS.* Frequent near Warwick, *Brom.* Near Rugby.
5. LEAM. In a thicket, near the crossing of the Fosseway, road from Tachbrook to Harbury, 1835, *Perry, MS.* In a garden opposite the Old Well, Leamington, *Perry Fl. 32.* Willoughby ; Birdingbury ; Princethorpe ; Ufton Wood ; Harbury Heath.
6. SOW. Lanes about Allesley ; Combe Woods.
7. STOUR. Honington, *Newb.* Abundant, banks, near Barton-on-the-Heath ; Oxhill.
8. ALNE. Lapworth Street ; near Kingswood ; lanes, near Snitterfield ; and Snitterfield Bushes.
9. ARROW. Oversley ; Ragley, Coughton.
10. CHERWELL. Warmington, Farnborough.

**R. maritimus, Linn.**

*Golden Dock.*

Top. Bot. 360. Syme, E. B. viii. 42. 1212.

Native ; near brackish pools and marshes. Very rare. P. May to July.

First record, Ray, *Historia Plantarum*, 1686. *Lapathum folio acuto flore aureo*, C. B.

1. TAME. Middletoni Warwicensi agro in fossis, *Ray, Hist. Plant. i. 174.* Near Perkin's Pool, Sutton Park, *Power, MS.* Top end of Bracebridge Pool, Sutton Park, 1880, very stunted specimens.
4. AVON. Chesterton Mill Pool ! New Waters, Warwick Park, *Brom.* Fish Pond, Lighthorne ; Chadshunt, *Bolton King.*
5. LEAM. Near Leamington, 1822, *Perry, MS.*
6. SOW. Washbrook, Kenilworth, *Brom.*

Probably introduced into Sutton Park by the agency of maritime birds, which have occasionally been seen there.

[\*\* *Rumex palustris*, Warwickshire, *Bree, Cat.*, New Bot. Guide, p. 186, is probably a mistake. Bree makes no mention of this plant in his list of plants published in the Magazine of Natural History, vol. iii. Freeman also records this plant from Sutton Park. Possibly *R. maritimus* was intended.]

**R. pulcher, Linn.**

*Fiddle Dock.*

Top. Bot. 360. Part. i. 187. Syme, E. B. viii. 44. 1214.

Native ; cultivated land, churchyards, rarely on banks. Very rare. P. June-July.

First record, Cross, *Herb. Perry*, 1850.

4. AVON. Chesterton Churchyard, and field adjoining ! near Chesterton Wood, *Brom.* Stratford-on-Avon Churchyard ! *Newb.* Lighthorne, *Miss Palmer.*
5. LEAM. Harbury Village, *Cross.*
7. STOUR. Kitchen garden, Honington Hall ! Halford, *Newb.*

**R. obtusifolius**, Linn. *Broad-leaved Dock.*

Top. Bot. 359. Purt. i. 184. Syme, E. B. viii. 46. 1215.

Native; woods, banks, roadsides, &c. Common, and generally distributed. P. June to September.

First record, Baxter, MS., Rugby, 1831.

**R. acutus**, Linn. *R. pratensis*, M. and K.

Top. Bot. 359. Syme, E. B. viii. 47. 1216.

Native; fields, roadsides, banks. Rare and local. P. June to August.

First record, Bromwich, Top. Bot., 1870.

2. BLYTHE. Balsall Common! *Brom.* Lanes about Solihull and Temple Balsall.
3. ANKER. Lanes about Hartshill; Bramcote, near Tamworth; road from Burton Hastings to Anker Bridge.
4. AVON. Pond in Cathiron Lane, Harborough Magna! *Blox. in Rugby Sch. Rep.*, 1872, p. 56. Lanes about Old Park, Warwick; Myton; Tachbrook, *Brom.* Near Little Lawford Mill; near Newbold-on-Avon.
6. SOW. Beausale, *Brom.* Crackley Lane, Kenilworth.
7. STOUR. Ilmington, *Newb.* Oxhill; Brailles.
8. ALNE. Lane from Bearley Cross to Little Alne; Aston Cantlow; Lapworth Street; canal side, near Kingswood.

**R. crispus**, Linn. *Curled Dock.*

Top. Bot. 358. Purt. i. 185. Syme, E. B. viii. 49. 1218.

Native; roadsides, waste heaps, banks, &c. Common, and generally distributed. P. July to September.

First record, Baxter, MS., Rugby, 1831.

Var. *trigranulatus*, Syme. Rare or overlooked.

4. AVON. Chesterton Mill Pool, *Brom.*
5. LEAM. Cornfield, near Harbury Railway Station, *Brom.*

A large form, which Mr. Bromwich considers to be var. *sub-cordatus*, Warren, grows in marshy ground at Hill Wootton.

I have not seen specimens of either variety from any Warwickshire station.

**R. Hydrolapathum**, Huds. *Great Water Dock.*

Top. Bot. 357. Purt. i. 185. Syme, E. B. viii. 51. 1220.

Native; rivers, canals, and pools. Locally common. P. July-August.

First record, Withering's Arrangement, 1787, *R. aquaticus*, Linn.

1. TAME. Meadows, near Dosthill; lane from Water Orton to Minworth.
2. BLYTHE. Stratford Canal, near Hockley.
3. ANKER. Near Tamworth, *With. Ed.* 2. i. 285. At the foot of Bow Bridge (Bole Bridge), on the Coventry Road! *With. Ed.* 5. ii. 443. Ryehills; Amington; Alvecote; Shuttington; Chilvers Coton; Mancetter.
4. AVON. Near Bidford! *Purt.* i. 185. Hill Wootton; Myton; Warwick; Wasperton, *Brom.* Salford Priors! *Caswell.* Guy's Cliff! *Baynes, MS.* Binton Bridges; canals, near Rugby; Harborough Magna.
5. LEAM. Canal, Long Itchington; near Willoughby.

6. SOW. Sow Waste Canal; canal, Combe Pastures.  
 8. ALNE. Wilmcote! *Blox. in Litt.* Bearley Canal.  
 9. ARROW. River Arrow, near Alcester! *Purt.* i. 185. Oversley Mill; near Broom.

**R. Acetosella**, Linn. *Common Sorrel. Green Sauce.*

Top. Bot. 361. *Purt.* i. 186. Syme, E. B. viii. 54. 1223.  
 Native; heathlands, railway banks, sandy fields, &c. Common, and generally distributed.  
*P.* May to July.  
 First record, Dr. Lloyd, Herb. Perry, 1835.

**R. Acetosella**, Linn. *Sheep's Sorrel.*

Top. Bot. 361. *Purt.* i. 186. Syme, E. B. viii. 56. 1224.  
 Native; heathlands, railway banks, sandy fields, &c. Locally common, but occurring throughout the county. *P.* May to July.  
 First record, Perry, Herb. Perry, 1812.

ORD. LX. THYMELÆACEÆ.

**DAPHNE**. Linn.

**\*D. Mezereum**, Linn. *Spurge Olive. Dwarf Bay.*

Top. Bot. (362). Syme, E. B. viii. 84. 1246.  
 Denizen; rocky banks. Very rare. *P.* March.  
 First record, Bromwich, Herb. Brit. Museum, 1866.

4. AVON. Spinny on the Moreton Road, Lighthorne, *Miss Palmer*.  
 8. ALNE. Canal cutting, near Shrewley Common, *Brom., Herb. Brit. Mus.*

This plant scarcely deserves a higher place in the flora than that of a casual. It was well established in the Shrewley locality above mentioned, on rocks, where it could scarcely have been planted by man's agency. It was probably introduced by birds dropping seeds on these rocks. Shrewley Canal cutting is comparatively recent, hence the plant cannot have had a very long existence in that Warwickshire station.

**D. Laureola**, Linn. *Spurge Laurel.*

Top. Bot. 362. *Purt.* i. 194. Syme, E. B. viii. 86. 1247.  
 Native; woods, banks, and waysides, in calcareous soils. Local and rare. *P.* March-April.  
 First record, Perry, List, 1817.

4. AVON. Newbold Comyn, *Sm., Per. Fl.* 35. Stank Hill Farm, near Warwick; Warwick Castle Mount; on the Stratford and Birmingham roads, near Warwick! *Perry, List*, 1817. Moreton Morrell, *Brom.* Near Wolstone, *Rugby Sch. Rep.*, 1876. Wellesbourne; Lighthorne, *Bolton King*. Lower Fullbrook; lanes, near Sherborne; Red Hill, near Alcester.  
 5. LEAM. Itchington! *Bree, Mag. Nat. Hist.* iii. 164. Bishop's Itchington, *Bolton King*.  
 8. ALNE. Grafton! *Purt.* i. 194. Drayton Bushes; Great Alne.  
 9. ARROW. Oversley Wood! *Purt.* i. 194. Banum's Wood, Morton Bagot.

## ORD. LXI. LORANTHACEÆ.

VISCUM. *Linn.**V. album, Linn.**The Mistletoe.*

Top. Bot. 207. Purt. ii. 474. Syme, E. B. iv. 189. 635.

Native; parasitical on apple, poplar, and hawthorn trees, &c. Rare. S. May-June.

First record, Ray, *Historia Plantarum*, 1688.

1. TAME. "*Viscum, Middletoni, in agro Warwicensis, in Corylo,*" Ray, *Hist. Plant.* ii., 1583. The Grange Grounds, Erdington.
  2. BLYTHE. On a poplar, near Packwood Church, 1880; on an apple tree, Packwood Grange, introduced.
  4. AVON. Scarce in the neighbourhood of Warwick; Norbrook, *Per. Fl.* 80. Apple orchard, Abbot's Salford, *Caswell*.
  5. LEAM. In an orchard, at Birdingbury; on hawthorn, at Birdingbury, *Brom.*
  9. ARROW. In an orchard, at Alcester.
- \* Purton's remark on this plant, "common," can only apply to the Worcester-shire portion of the district near Alcester, as the plant is extremely rare in the immediate neighbourhood of Alcester, on the Warwickshire side.

## ORD. LXII. EUPHORBIACEÆ.

EUPHORBIA. *Linn.**E. Helioseopia, Linn.**Sun Spurge.*

Top. Bot. 363. Purt. i. 230. Syme, E. B. viii. 99. 1254.

Colonist; cultivated land and waste heaps. Common, and generally distributed.

A. March to October.

First record, Lloyd, *Herb. Perry*, 1835.

[\*\**E. platyphylla*, Linn. Casual; on railway banks, near Myton, single specimen, *Brom.*]

*E. amygdaloides, Linn.**Wood Spurge.*

Top. Bot. 366. Purt. i. 230. Syme, E. B. viii. 105. 1260.

Native; woods, coppices, and shady banks. Local and rare. P. April to June.

First record, Perry, *MS.* 1841.

2. BLYTHE. Boulton Wood, Meriden; Shelly Coppice; lanes about Hockley; Clow's Wood, Earlswood; Forshaw Heath.
3. ANKER. Bentley Park; Hartshill Hayes.
4. AVON. Old Park, Warwick, 1841, *Perry, MS.* Salford Priors! *Caswell*,
6. SOW. Combe Woods.
8. ALNE. Chalcot Wood; lanes about Tanworth and Umberslade; near Henley-in-Arden; Austey Wood; lane by Stoooper's Wood, Wawen's Moor; Bearley Bushes.
9. ARROW. Oversley Wood; Morgrove Coppice, Spennall; Banum's Wood, Morton Bagot; lanes about Outhill and Clarke's Green, near Studley; Gorcott Hill.

[\*\**E. Esula*, Linn. Casual; on railway banks at Leek Wootton and Myton !  
*Brom.*]

**E. Peplus**, Linn. *Petty Spurge.*

Top. Bot. 365. Purt. i. 230. Syme, E. B. viii. 111. 1265.

Native; cultivated fields, roadsides, and waste heaps. Common, and generally distributed. A. March to October.

First record, Perry, Herb. Perry, 1812, near Warwick.

**E. exigua**, Linn. *Dwarf Spurge.*

Top. Bot. 365. Purt. i. 231. Syme, E. B. viii. 111. 1266.

Native or colonist; cornfields and damp heathy waysides. Locally common.  
A. June to November.

First record, Perry, List, 1817.

1. TAME. Cornfields, near Sutton; Middleton; roadsides, near Penns; Shus-toke; Hurley; Kingsbury; Arley.
2. BLYTHE. Coleshill; Marston Green; Sheldon; Olton; Solihull; Berkswell; Forshaw Heath.
3. ANKER. Hartshill; Austrey; Shuttington.
4. AVON. About Rugby! *Baxter, MS.* Opposite Stoneleigh Lodge, *Perry, List*, 1817. Whitnash, 1821; Ashorne! 1820; in a field near Oakley Wood, 1834, *Perry, MS.* Chesterton, *Brom.* Salford Priors, *Caswell.* Near Harborough Magna; Little Lawford; Stoneleigh.
5. LEAM. Open field, between Harbury and Tachbrook, *Perry, List*, 1817. Birdingbury Wharf; Marton; Frankton; Cubbington; Ufton; Leamington.
6. SOW. Cornfields, Binley; Ansty.
7. STOUR. Honington! Shipston-on-Stour! Lambcote, *Newb.* Barton-on-the-Heath; Ilmington; Wimpstone Fields.
8. ALNE. Wilmcote; Preston Bagot; Pinley.
9. ARROW. Alcester Heath; Alcester; Ragley; Oversley.
10. CHERWELL. Fallow field, Avon Dassett.

Not infrequently found on neglected waysides and waste heaps.

[\*\**E. Cyparissias*, Linn. Casual or escape; near Rugby *Rugby Sch. Rep.*, 1870.]

[\*\**Buxus sempervirens*, Linn. Alien; in hedges and rarely woods, but only where it has been planted. Pinley Green, near Stone House, Claverdon.]

**MERCURIALIS.** *Tournef.*

**M. perennis**, Linn. *Dog's Mercury.*

Top. Bot. 366. Purt. ii. 481. Syme, E. B. viii. 114. 1268.

Native; woods, copses, shady banks. Very common, and generally distributed.  
P. February to May.

First record, Perry, Herb. Perry, 1813.

## ORD. LXIII. URTICACEÆ.

ULMUS. *Linn.***U. montana, Sm.***Wyck Elm.*

Top. Bot. 368. *Purt.* i. 137. Syme, E. B. viii. 141. 1287.  
Denizen or native; hedges. Local. T. February to April.  
First record, Purton, in Midland Flora, 1817.

1. TAME. Bracebridge Pool, Sutton Park; Middleton; Shustoke.
2. BLYTHE. Packington; Marston Green; Elmdon; Hampton-in-Arden; Solihull.
3. ANKER. Hartshill Hayes; Grendon; Shuttington; Warton; Austrey Newton Regis; Seckington.
4. AVON. Hill Morton; Holbrook Grange, *Baxter, MS.* Milverton, *Y. and B.* Roadside, near Tachbrook, *Brom.* Lighthorne, *Miss Palmer.*
5. LEAM. Road from Princethorpe to Brinklow.
6. SOW. Combe Fields.
7. STOUR. Honington, *Newb.* Ilmington.
8. AINE. Wootton Wawen.
9. ARROW. Wixford Lane, *Purt.* i. 138.
10. CHERWELL. Farnborough.

Var. *b. major* (Sm.) Local and rare.

1. TAME. Arley Wood.
2. BLYTHE. Marston Green.
4. AVON. Myton; Emscote, *Y. and B.* Near Rock Mills, Milverton, *Brom.*
7. STOUR. Wimpstone.
10. CHERWELL. Bridle road from Wormleighton to Farnborough.

This variety has the corky excrescences on the branches strongly developed.

Var. *c. nitida*, Syme. Rare.

10. CHERWELL. Bridle road from Farnborough to Wormleighton.

**U. campestris, Sm.** Var. *a. suberosa*, Ehrht. *Elm.*

Top. Bot. 368. *Purt.* i. 137. Syme, E. B. viii. 137. 1285-6.  
Denizen; hedges or woods, often planted. Common, and generally distributed.  
T. February to April.  
First record, Withering's Arrangement, 1801. Var. *glabra*, Mill.

*glabra*, Mill. Local and rare.

1. TAME. Edgbaston Park, growing to a very large size, *With. Ed.* 4. ii. 274.
2. BLYTHE. Hill Bickenhill! *Herb. Per.* Road from Coleshill to Atherstone, near Blythe Hall,
4. AVON. Four miles from Stratford-on-Avon, on the road to Alcester! *Lindley's Synopsis, Ed.* 3. 226. *U. carpinifolia.* Common about Rugby, *Blox., New Bot. Guide Sup.,* 1837. Near Chesterton; road from Warwick to Banbury; Warwick Road, near Stratford, *Brom.*
6. SOW. Sow, near Coventry.
10. CHERWELL. Farnborough Pool; bridle road from Wormleighton to Farnborough.

This variety has been reported under the various names of *U. stricta*, *U. glabra*, and *U. carpinifolia*, which are probably forms of one variable plant.

**HUMULUS.** *Linn.***H. Lupulus,** *Linn.**Common Hop.*

Top. Bot. 367. Purt. ii. 475. Syme, E. B. viii. 133. 1284.

Native or denizen ; hedges, near villages, and old gardens. Locally abundant.  
P. July-August.

First record, Perry, List, 1817.

1. TAME. Driffold Lane, Sutton Park ; Tamworth Road, near Moor Hall ; Middleton ; Shustoke ; near Old Fillongley Hall.
2. BLYTHE. Berkswell, *Grove*. Marston Green, near the village ; Cornets End, near Berkswell ; Bradnock's Marsh.
3. ANKER. Hartshill ; Austrey.
4. AVON. About Rugby, *Baxter, MS.* Emscote Bridge, *Perry, List.* 1817. Salford Priors ! *Caswell*. Newbold and Lawford Roads, near Rugby, *Rugby Sch. Rep.*, 1868. Myton ; Woodloes, Warwick ; Charlcote Road, *Brom.* Near Stoneleigh Abbey, *Grove*. Abbot's Salford, abundant.
5. LEAM. Banks of canal, Radford Semele ! *Y. and B.* Birdingbury.
6. SOW. Withybrook, near Brinklow ; near Kenilworth.
7. STOUR. Honington ! Halford ! *Newb.* Ilmington.
8. ALNE. Aston Cantlow, *Slatter*. Kemp's Green, near Lapworth ; Wootton Wawen.
9. ARROW. Broom Village ; Kingley, near Alcester ; Alcester Heath, abundant.

**URTICA.** *Tournef.***U. dioica,** *Linn.**Common Nettle.*

Top. Bot. 367. Purt. ii. 453. Syme, E. B. viii. 127. 1279.

Native ; banks, waste heaps, and field borders. Very common, and generally distributed. P. May to September.

First record, Baxter, MS., 1831 ; Rugby.

Var. *b. angustifolia*, A. B. Bog at the Woodloes, *Brom.***U. urens,** *Linn.**Small Nettle.*

Top. Bot. 367. Purt. ii. 453. Syme, E. B. viii. 130. 1282.

Native or colonist ; waste heaps, gardens, and near villages. A. May to September.

First record, Ick, Analyst, 1837.

1. TAME. On a bank at Saltley, opposite Coleshill Road, *Ick, Anal.*, 1837. Sutton Park, *Grove*. Near the Royal Hotel, Sutton.
2. BLYTHE. Hampton-in-Arden, *Rogers*. Waste heaps, near Solihull.
4. AVON. Warwick and Milverton, frequent on light soils, *Brom.* Lane by Brandon Railway Station ; Cathiron Lane, near Harborough Magna, on waste heaps ; fields, near Drayton Bushes ; Milverton.
5. LEAM. Old garden, near Offchurch ; Princethorpe ; Stockton Reservoir.
7. STOUR. Honington ! *Newb.*
8. ALNE. Lane from Henley-in-Arden to Ullenhall.
9. ARROW. Weethley, near Alcester, abundant.

So far as my own experience serves, this plant partakes more of the character of a "colonist" than of a native in Warwickshire, rarely being met with remote from villages.

[\*\**U. Dodartii*, Linn. Garden weed, Saltisford, Warwick, *W. G. Perry*, *Herb. Per.*]

### PARIETARIA. *Tournef.*

**P. officinalis**, Linn. *P. diffusa*, Koch. *Pellitory of the Wall.*

Top. Bot. 367. *Purt.* ii. 494. Syme, E. B. viii. 126. 1278.

Native; old churches, old walls and ruins. Local and rare. *P.* May to October.

First record, Purton in Midland Flora, 1817.

1. TAME. Old wall, Gilsdon! *Grove*. Old walls, Hurley; old walls, Arley.
2. BLYTHE. Ruins of Maxstoke Priory.
3. ANKER. Old walls, Nuneaton Abbey; ruins of Hartshill Priory; Churchyard wall, Newton Regis.
4. AVON. Near Clifton, near Rugby, *Baxter, MS.* On the Westgate and many old walls in Warwick; on Tachbrook and Stratford Churches! *Per. Fl.* 13. Warwick Castle Wall, 1832, *Wynch, MS.* Milverton Church! Wolverton Church, 1841, *Perry, MS.* Guy's Cliff House! *Baynes, MS.* Stoneleigh Abbey, *Brom.* Salford Priors, on old walls! *Caswell.* Abbot's Salford; Binton churchyard wall.
5. LEAM. Canal siding, near the railway on the way for Radford Semele.
6. SOW. Kenilworth Castle, 1832, *Perry, MS.* Allesley churchyard wall, *Herb. Per.* Allesley Village; city walls, Coventry.
8. ALNE. Haselor Churchyard, *Purt.* i. 494. Aston Cantlow, *Slatter.* Old walls, Claverdon Village.

## ORD. LXIV. CUPULIFERÆ.

### BETULA. *Tournef.*

**B. alba**, Linn. *Birch.*

Top. Bot. 372. *Purt.* ii. 455. Syme, E. B. viii. 181. 1295.

Native or denizen; woods, coppices, and hedges. Common, and generally distributed. *T.* April-May.

First known record, the Author, 1869, Coleshill.

How far this tree has any claim to be considered indigenous I am unable to form an opinion. It has the appearance of being native, however, in some of the woods about Coleshill, Coughton, and other districts.

**B. glutinosa**, *Fr.*

Top. Bot. 372. Syme, E. B. viii. 186. 1296.

Native; woods and coppices. Rare, or imperfectly recorded. *T.* April-May.

First record, the Author, 1869, Coleshill.

1. TAME. Trickle Coppice, Middleton.
2. BLYTHE. Honiley; Coleshill Heath; Berkswell.
6. SOW. Fern Hill; Kenilworth (*pubescens*), *Brom.*
8. ALNE. Alderhanger, near Trap's Green.
9. ARROW. Coughton Park.

**ALNUS.** *Tournef.*

**A. glutinosa**, *Gaert.* *Betula Alnus*, L. *Common Alder.*

Top. Bot. 372. *Purt.* ii. 456. Syme, E. B. viii. 178. 794.  
Native; banks of rivers, streams, near pools, &c. Common, and generally distributed. T. February to April.  
First record, the Author, 1869, Sutton Park.

**CARPINUS.** *Linn.*

\* **C. Betulus**, *Linn.* *Hornbeam.*

Top. Bot. 371. *Purt.* ii. 466. Syme, E. B. viii. 176. 1293.  
Denizen; plantations and hedges. Rare. T. May.  
First record, Dolben, Midland Flora, 1817.

1. TAME. Four Oaks Park, Sutton Park; Doe Bank, near Sutton.
2. BLYTHE. Hampton-in-Arden, *Rogers.* Bradnock's Marsh.
3. ANKER. Weddington.
4. AVON. Chesterton; Myton, *Brom.*
6. SOW. Stoke, near Coventry, *Kirk.*
9. ARROW. Several old trees about Ipsley! T. *Dolben*, *Purt.* ii. 466.  
Probably planted in all these stations.

**CORYLUS.** *Tournef.*

**C. Avellana**, *Linn.* *Hazel.*

Top. Bot. 371. *Purt.* ii. 465. Syme, E. B. viii. 170. 1292.  
Native; woods, copses, and hedges. Common, and generally distributed. S.  
or T. January to March.  
First record, Baxter, MS., Rugby, 1831.

**QUERCUS.** *Tournef.*

**Q. Robur**, *Linn.* *Oak.*

Top. Bot. 369. *Purt.* ii. 459. Syme, E. B. viii. 145. 1288-9. *Q. pedunculata*, Ehrh.  
Native; woods, coppices, hedges, &c. As an aggregate, common, and generally distributed. T. May.  
First record, Withering's Arrangement, 1801, Edgbaston.  
Var. *c. Q. sessiliflora*, Salisb. Local or rare.  
First record, Bree in Midland Flora, 1817.

2. BLYTHE. Near Coleshill.
3. ANKER. Hartshill Hayes. *Brom.*
4. AVON. Woodloes, near Warwick, *Y. and B.*
5. LEAM. Ufton Wood, *Brom.*
6. SOW. Corley Woods, *Bree in Purt.* iii. 383. Allesley, *Bree in Purt.* ii. 460. Kenilworth, *Y. and B.*
7. STOUR. Ilmington; Pillerton Lazer.
8. ALNE. Haywood, *Bree in Purt.* iii. 383.
9. ARROW. The sessile fruited oak is nearly as common in the woods and hedgerows hereabouts (Alcester) as *Q. Robur*, *Purt.* iii. 383.

**CASTANEA.** *Tournef.*

\**C. sativa*, Mill. *Fagus Castanea*, Linn. *Sweet Chestnut.*

Purt. ii. 462. Syme, E. B. viii. 159. 1290.  
 Alien; woods and hedges. Rare. T. May.  
 First record, Purton, Midland Flora, 1817.

1. TAME. Westwood Coppice; Sutton Park; coppice, near Penns.
3. ANKER. Oldbury Reservoir.
4. AVON. Tachbrook; wood, near Guy's Cliff; Warwick Castle Park, *Brom.*
8. ALNE. Snitterfield, *Purt.* ii. 462.
9. ARROW. Ragley Woods! *Purt.* ii. 462.
10. CHERWELL. Near Farnborough.

**FAGUS.** *Tournef.*

**F. sylvatica**, Linn. *The Beech.*

Top. Bot. 370. Purt. ii. 461. Syme, E. B. viii. 164. 1291.  
 Native; woods, coppices, hedges, &c. Local. T. May-June.  
 First known record, Baxter, MS., 1840, near Rugby.

1. TAME. Hedges, near Gravelly Hill; Sutton Park; Middleton.
2. BLYTHE. Duke Bridge, near Coleshill; Packington Park.
3. ANKER. Ansley; Merivale; Birch Coppice; Grendon; Newton Regis; Wolvey, &c.
4. AVON. About Rugby, *Baxter, MS.* Chesterton Wood! *Y. and B.* Warwick Old Park, *Brom.* Edge Hill! Lighthorne, *Miss Palmer.* Compton Verney; Stoneleigh.
5. LEAM. Shuckburgh.
6. SOW. Fernhill Wood, *Brom.* Corley; Allesley.
7. STOUR. Ilmington.
8. ALNE. Baddesley Clinton; Wootton Wawen.
9. ARROW. Ragley; Kingley; Oversley.
10. CHERWELL. Farnborough.

## ORD. LXV. SALICINÆ.

**SALIX.** *Linn.*

**S. pentandra**, Linn. *Bay-leaved Willow.*

Top. Bot. 374. Purt. iii. 71. Syme, E. B. viii. 202. 1303.  
 Native; moist woods, hedges, and river sides. Rare. T. April to July.  
 First record, Purton, Midland Flora, 1821.

1. TAME. Canal side, near Bromford Forge; Pool Hollies, Sutton Park; Hill Hook.
2. BLYTHE. Mercote Mill Pool, near Berkswell; Holly Lane, near Temple Balsall.
3. ANKER. Arbury, 1847, *Kirk, Herb. Per.* Near Atherstone Hall; marsh, near Shuttington Bridge.
4. AVON. On the banks of the Avon, near Holbrook Grange, *Baxter in Purt.* iii. 71.

6. SOW. Binley, near Coventry, *Bree in Purt.* iii. 71. Honiley! *Y. and B. Combe. Rugby Sch. Rep.*, 1876.
  7. STOUR. Alderminster, *Lees, Bot. of Worces.*, 1867.
  10. CHERWELL. Marshy coppice, near Farnborough.
- Alderminster is in Worcestershire, on the borders of Warwickshire.

**S. fragilis, Linn.***Crack Willow.*

Top. Bot. 374. *Purt.* ii. 744. Syme, E. B. viii. 205. 1306.  
Native; woods, hedges, river banks. Common. T. April-May.  
First record, Kirk, Herb. Perry, about 1847.

1. TAME. Witton; Sutton Park; Middleton; Curdworth; Over Whitacre, &c.
2. BLYTHE. Honiley; Coleshill; Solihull; Earlswood.
3. ANKER. Hartshill; Merivale; Shuttington, &c.
4. AVON. Myton, *Brom.* Edge Hill; Alveston, &c.
5. LEAM. Radford Semele, *Brom.* Birdingbury.
6. SOW. Whitley; Brinklow, *Kirk, Herb. Per.*
7. STOUR. Honington, *Newb.* Upper Eatington; Wimpstone Fields.
8. ALNE. Little Alne; Wootton Wawen.
9. ARROW. Coughton Mill; Wixford.
10. CHERWELL. Farnborough.

Var. *b. decipiens*, Hoffm.

Syme, E. B. viii. 206. 1307.  
Alien; in hedges and osier grounds. Rare. T. May.

2. BLYTHE. Marsh, near Meriden.
3. ANKER. Ironstone Wood, Oldbury; marsh in the bridle road to Bramcote Hall, Tamworth.
4. AVON. Myton, *Brom.*, *Herb. Brit. Mus.*
6. SOW. Quinton Pool! near Coventry, *Kirk.*, *Herb. Per.*
8. ALNE. In an osier holt, near Kingswood; Henley-in-Arden; near Great Alne, in hedges.
10. CHERWELL. Wormleighton Reservoir.

Var. *c. Russelliana* (Sm.)

*Bedford Willow.*

*Purt.* iii. 77. Syme, E. B. viii. 208. 1308.  
Native or alien; near rivers and ditches. Local. T. April.  
First record, Kirk, Herb. British Museum, 1855.

1. TAME. Near Sutton Park.
4. AVON. Milverton, *Y. and B.* Emscote; Guy's Cliff; Myton, *Brom.* Alveston Pastures.
6. SOW. Pinley, *Kirk, Herb. Brit. Mus.* Stoke Heath; Fillongley, *Kirk, Herb. Per.*
8. ALNE. Lapworth Street.

**S. alba, Linn.***Common White Willow.*

Top. Bot. 374. *Purt.* ii. 469. Syme, E. B. viii. 211. 1309.  
Native; near rivers and in hedges. Rather common. T. April.  
First record, Kirk, Herb. Perry, about 1855. Var. *cærulea*.

1. TAME. Witton; Middleton; Arley, &c.
2. BLYTHE. Copt Heath, near Knowle; Knowle; Honiley.

3. ANKER. Banks of the Anker; Shuttington; Bramcote; Austrey, &c.
4. AVON. Near Newbold-on-Avon; Warwick; Stratford-on-Avon.
5. LEAM. Flecknoe; Birdingbury; Radford Semele.
6. SOW. Whitley; Pinley, *Kirk, Herb. Per.* Fillongley.
7. STOUR. Honington, *Newb.* Atherstone-on-Stour.
8. ALNE. Abundant near Great Alne.
9. ARROW. Coughton; Wixford.
10. CHERWELL. Warmington; Farnborough.

A common tree in many parts of South Warwick, but more local in North Warwick.

Var. *b. cerulea* (Sm.) Rather rare.

Syme, E. B. viii. 211. 1310.

4. AVON. Brandon, 1855, *Kirk, Herb. Per.* Avon Side, near Emscote; near Walton Village, *Brom.* Myton! *Y. and B.*
6. SOW. Near Honiley; Sow Waste.
8. ALNE. Lane, Bearley to Little Alne.

Var. *c. vitellina* (Linn.) Syme, E. B. viii. 211. 1311.

3. ANKER. Marsh, bridle road to Bramcote.
4. AVON. Meadows near Myton, Warwick, *Brom., Herb. Brit. Mus.*
6. SOW. Coventry Park, 1855, *Kirk, Herb. Per.*
8. ALNE. Near Kingswood Railway Station; Lapworth Street, near High Chimneys; near Great Alne; lane from Bearley Cross to Preston Bagot.

### **S. triandra, Linn.**

*Long-leaved Smooth Willow.*

Top. Bot. 375. *Purt.* iii. 72. Syme, E. B. viii. 215. 1313.

Native; woods, hedges, and river banks. Rare. T. April.

First record, Purton, Midland Flora, 1821.

2. BLYTHE. Olton Pool.
4. AVON. Old Park, Warwick; Chesterton Mill Pool; Myton! *Brom.*
5. LEAM. Frankton Wood, *Rugby Sch. Rep.*, 1876. Banks of the Leam, Leamington, *Brom.*
6. SOW. Wyken Rumps, 1852, *Kirk, Herb. Per.*
9. ARROW. Osier holts, near Alcester; at Broom Ford, close to the river; Wixford Bridge, *Purt.* iii. 73.
10. CHERWELL. Priors Marston.

Var. *b. hoffmanniana* (Sm.) Rare. Syme, E. B. viii. 215. 1314.

3. ANKER. Osier holt, lane above Mancetter.
4. AVON. Myton; Tachbrook, *Brom.* Frequent about Rugby, *Blox., N. B. G. S.*, 1837. Near Caldecott's Lime Works, beyond Lawford, *Rugby Sch. Rep.*, 1886.
5. LEAM. Banks of the Leam, Radford Semele! *Brom., Herb. Brit. Mus.* Stockton, near the canal, *Brom.*
7. STOUR. Barton-on-the-Heath.

Var. *c. amygdalina* (Linn.). Rare. E. B. viii. 216. 1315.

1. TAME. Near Freasley Hall, near Tamworth.
2. BLYTHE. Bickenhill, *Y. and B.* Near Hampton-in-Arden; Hill Bickenhill; Olton Pool.
3. ANKER. Lane above Mancetter; road from Wolvey to Shilton.

4. AVON. On the banks of the Avon, *Purt.* iii. 73. Myton! *Brom.*
5. LEAM. Leam, near Leamington, *Brom.*, *Herb. Brit. Mus.* Radford Semele, *Brom.*
6. SOW. Sow Waste, near Coventry, 1852, *Kirk, Herb. Brit. Mus.* Wyken, *Kirk, Herb. Per.*
7. STOUR. Ilmington; Wimpstone.
8. ALNE. Quarry Lane, Rowington, *Brom.* Lowson Ford, near Lapworth; Canal siding, near Rowington.
9. ARROW. Banks of the Arrow and in osier beds in several places near Alcester, *Purt.* iii. 73.
10. CHERWELL. Osier holt, near Farnborough.

**S. purpurea, Linn.***Purple Willow.*Var. *b. Woolgariana* (Borr.)

Syme, E. B. viii. 218. 1317.

Native; banks of pools. Very rare. T. March-April.  
First record, Bromwich, about 1875.

8. ALNE. Shrewley Pool, near Hatton, *Brom.* (female).

Var. *c. Lambertiana* (Sm).*Purt.* ii. 744. Syme, E. B. viii. 218. 1318.Native; banks of rivers, pools, &c. Rare. T. March-April.  
First record, Purton, Midland Flora, 1817.

2. BLYTHE. Olton Reservoir.
3. ANKER. By footbridge, on the road from Shuttington to Polesworth.
4. AVON. Salford, *Purt.* ii. 744. Myton! *Brom.* Pond, near Bilton, *Rugby Sch. Rep.*, 1890.
5. LEAM. Marsh, near Radford Semele! *Brom.*
8. ALNE. Shrewley Pool, *Dr. R. L. Baker, Exch. Club Rep.*, 1879.
9. ARROW. Wixford, *Purt.* ii. 744.

**S. rubra, Huds.** Var. *c. Helix* (Linn.)*Purt.* ii. 471. Syme, E. B. viii. 221. 1319.Native; hedges, river sides, and osier holts. Rare. T. April-May.  
First record, Purton, Midland Flora, 1817.

2. BLYTHE. Olton Reservoir.
3. ANKER. Marsh, bridle road from Shuttington to Bramcote.
4. AVON. Myton! Beausale, *Y. and B.* Bog at the Woodloes, Warwick Brownslow Green, near Hatton, *Brom.* Corner of a field, near Rugby, *Rugby Sch. Rep.*, 1876.
5. LEAM. Meadows, near Leamington, *Brom.*
6. SOW. Coundon, near Coventry, 1855, *Kirk, Herb. Per.*
8. ALNE. Shrewley Pool, *Brom.*
9. ARROW. Dunnington, *Purt.* ii. 472.

**S. viminalis, Linn.***Common Osier.*Top. Bot. 375. *Purt.* ii. 470. Syme, E. B. viii. 223. 1322.Native; hedges, river banks, and pools. Local. S. April-May.  
First record, Bree, New Botanist's Guide, 1835, unlocalised.

1. TAME. Near Forge Mills; near Kingsbury; Plant's Brook.

2. BLYTHE. Olton Reservoir.
3. ANKER. Osier holt, above Mancetter; Parley Park, near Atherstone; Wolvey; Shuttington; Rye Hills, near Tamworth.
4. AVON. Old Park, Warwick, *Y. and B. Milverton, Brom.* Wood, near Lighthorne.
5. LEAM. Radford Semele; Ufton, *Brom.* Wappenbury; Birdingbury.
6. SOW. Coventry Park, *Kirk, Herb. Brit. Mus.*
7. STOUR. Ilmington; Barton-on-the-Heath.
8. ALNE. Rowington; near Crab's Mill, Preston Bagot.
9. ARROW. Out Hill, near Studley.
10. CHERWELL. Near Farnborough.

[\*\**S. stipularis*, Sm.

Syme, E. B. viii. 225. 1323. *Purt.* iii. 74.  
Ambiguity; osier holts. Very rare. S. March.  
First record, Purton, Midland Flora, 1820.

4. AVON. Osier beds in this neighbourhood (Alcester), *Purt.* iii. 74. Near Harborough Magna, *Blox.*

This is a very ambiguous plant, possibly the var. *pseudo-stipularis*, allied to *S. Smithiana*, is the plant intended.]

### **S. Smithiana**, Willd. *S. mollissima*, Sm.

Top. Bot. 375. *Purt.* iii. 74. Syme, E. B. viii. 226. 1324.  
Native; hedges, bushy places, and osier holts. Rare. S. or T. March to May.

First record, Purton, in Midland Flora, 1821. *S. mollissima*.

2. BLYTHE. Near Henfield, Knowle.
3. ANKER. Seas Wood, Arbury; Parley Park; Atherstone.
4. AVON. Salford, *Purt.* iii. 74. Hatton, *Brom.*
6. SOW. Wyken Church, near Coventry, 1856, *Kirk, Herb. Brit. Mus.*  
Kenilworth; Haseley, *Brom.*
8. ALNE. Near High Cross, Pinley Green; near Holywell.
9. ARROW. Wixford, *Purt.* iii. 74.

### **S. ferruginea**, G. Anders.

Syme, E. B. viii. 228. 1325.  
Native; heathlands and near pools. Rare. S. April.  
First record, Kirk, 1849.

2. BLYTHE. Mercote Pool, near Berkswell, *Brom.* Bentley Heath, near Solihull; canal bank, near Solihull.
6. SOW. Coventry Park, 1849, *Kirk, Herb. Per.*

### **S. rugosa**, Leeke.

Syme, E. B. viii. 228.  
Native; damp heathland and near pools. Local. S. March to May.  
First record, Kirk, Herb. British Museum, 1854.

2. BLYTHE. Canal bank. near Olton; Berkswell; Balsall Common; lane, near Solihull; near Temple Balsall.

3. ANKER. Marsh in bridle road from Shuttington to Bramcote; near Wolvey.
4. AVON. Hatton; Woodloes, Warwick; Myton, *Brom.*
5. LEAM. Radford Semele, *Brom.*
6. SOW. Pinley; Wyken, 1854, *Kirk, Herb. Brit. Mus.* Kenilworth, *Brom. Exch. Club Rep.*, 1879, p. 19. Haseley, *Brom.*
8. ALNE. Shrewley, *Y. and B.*

Dr. Wimmer quotes specimens from Pinley as his *cinereo-viminalis*.

### **S. acuminata, Sm.**

Syme, E. B. viii. 229. 1326.

Native; near pools and rivers. Very rare. S. April.

First record, Bromwich, 1871.

2. BLYTHE. Near the marl pits, near Knowle Railway Station.
3. ANKER? Marsh, bridle road from Shuttington to Bramcote.
4. AVON. River Avon, near Warwick, *Brom.*

### **S. cinerea, Linn.**

*Common Sallow.*

Top. Bot. 375. *Purt.* ii. 471. Syme, E. B. viii. 231. 1327.

Native; woods, hedges, bushy places, &c. Common, and generally distributed.

S. March to May.

First record, Purton, Midland Flora, 1821, var. *aquatica*.

Var. *b. aquatica* (Sm.) Rather local.

*Purt.* ii. 471. Syme, E. B. viii. 231. 1328.

1. TAME. Sutton Park.
2. BLYTHE. Coleshill Heath; near Stonebridge; Bentley Heath, near Solihull.
3. ANKER. Marsh by Shuttington Bridge.
4. AVON. Between Rugby and Dunchurch, *Cumming.* Myton, *Brom.*
5. LEAM. Near Radford Semele.
6. SOW. Brownhill Green (near Coventry), *Kirk, Herb. Per.* Haseley; Kenilworth, *Brom.*
9. ARROW. Swampy places at Oversley and Ragley Woods, *Purt.* ii. 471.

Var. *c. oleifolia* (Sm.) Rather rare. Syme, E. B. 231. 1329.

1. TAME. Sutton Park.
2. BLYTHE. Coleshill Heath; Olton, canal bank; Bentley Heath; Birchy Leasowes, near Earlswood.
3. ANKER. Marsh by Shuttington Bridge; bridle road, Shuttington to Bramcote Hall.
4. AVON. Hatton; bog at the Woodloes, Warwick; Warwick Old Park, *Brom.* Near Rugby, *Cumming.* Near Chesterton Wood, *Brom.* Oakley Wood; Alveston Heath.
5. LEAM. Itchington Holt.
6. SOW. Whitley, 1856, *Kirk, Herb. Brit. Mus.* Near Quinton Pool, Coventry, 1852, *Kirk, Herb. Per.* Kenilworth, railway banks, *Brom.*
7. STOUR. Near Tysoe.
8. ALNE. Canal side, near Preston Bagot.
9. ARROW. Sperrall.
10. CHERWELL. Wormleighton Reservoir.

A singular form of *S. cinerea*, var. *a.*, occurs on Bentley Heath, in which both male and female catkins are plentifully produced on the same plant, frequently on the same branch; and, in some cases, both male and female flowers were in the same catkins. Another singular form of the same var. *a.* occurred on damp heathlands near Umberslade, in which some of the stamens were developed into abortive pistils, or it may be that in this case also there were stamiferous and pistilliferous flowers in the same catkin.

***S. aurita*, Linn.**

Top. Bot. 376. Purst. iii. 76. Syme, E. B. viii. 232. 1830.

Native; woods, damp heaths, and heathy waysides. Locally common. S. March to May.

First record, Purton, Midland Flora, 1821.

1. TAME. Sutton Park; near New Park, Middleton; near Kingsbury.
2. BLYTHE. Copse, near Coleshill Pool! *Ich, Herb. Per.* Coleshill Heath; Marston Green; Bentley Heath, near Solihull; lanes about Solihull and Shirley; near Honiley; near Earlswood and Hockley.
3. ANKER. Bentley Common; Bentley Park; Newton Regis; Shuttington.
4. AVON. Hedges between Rugby and Dunchurch, *Baxter in Purst.* iii. 76. Near Rugby, *Cumming*. Lower Hill Morton Road, both flowers on one stem, *H. Y. O., Rugby Sch. Rep.* Oakley Wood, *Brom.*
5. LEAM. Ufton Wood.
6. SOW. Wall Hill Wood (near Corley), 1855, *Kirk, Herb. Per.* Haseley; Wroxall; Honiley! *Brom.* Kenilworth, *Kirk, Herb. Brit. Mus.* Combe Fields.
7. STOUR. Wolford Wood, 1887.
8. ALNE. Haywood! *Brom.* Near Tanworth; near Henley-in-Arden.
9. ARROW. Hedges, near Alcester, *Purst.* iii. 76. Spennall; Sambourn; Coughton.
10. CHERWELL. Wormleighton Reservoir.

***S. caeprea*, Linn.      Great Sallow.**

Top. Bot. 376. Purst. ii. 472. Syme, E. B. viii. 233. 1331.

Native; woods, hedges, heaths, and railway banks. Common and generally distributed. T. or S. March-May.

First record, the Author, Sutton Park, 1869.

***S. laurina*, Sm.**

Top. Bot. 376. Syme, E. B. viii. 235. 1333.

Native; near pools and canals. Very rare. S. April.

First record, Bloxam, 1868.

4. AVON. On the banks of the canal, near Brownsover; near Rugby, *Blox., Rugby Sch. Rep.*, 1868.
8. ALNE. Shrewley Pool, *Brom., Exch. Club Rep.*, 1875.
9. ARROW. What appears to be this at Green-hill Green, near Spennall; flowers not yet seen.

***S. nigricans*, Sm.**

Var. *c. Forsteriana* (Sm.)

Syme, E. B. viii. 242. 1349.

Native? near pools. Very rare. S. April-May.

8. **ALNE.** Shrewley, *Brom.* *S. nigricans*, Sm., *b. cotinifolia*, Shrewley, Warwickshire, May 16, 1876. This was sent to Dr. Boswell, with the remarks:—"Leaves of the Kew *cotinifolia* are shorter, rounder, and less acuminate. Similar differences appear in the plate of *cotinifolia* in E. B. Ed. iii. Is not this *Forsteriana*? T. R. A. B. Certainly not *cotinifolia*; probably, as Mr. Briggs suggests, *Forsteriana*."—J. B. Boswell, *Exch. Club Rep.*, 1876, p. 34.

Var. *f. Damascena* (Forbes.) Very rare. Syme, E. B. viii. 243. 1352.

8. **ALNE.** Shrewley Pool, *Brom.* "*S. nigricans*, var. *e. Andersoniana*. Shrewley Pool, Warwickshire, July, 1873, May, 1874.—H. Bromwich. I should call this a form of *S. nigricans*, *Damascena*, Forbes, not *Andersoniana*, which has narrower leaves and wrinkled capsules."—J. T. Boswell, *Exch. Club Rep.*, 1875, p. 26.

### **S. ambigua, Ehrh.**

Syme, E. B. viii. 244. 1355.

Native; on heathlands. Rare. S. May.

First record, H. Bromwich, 1887.

2. **BLYTHE.** Honiley, *Bromwich.* Coleshill Pool, 1889.

### **S. repens, Linn.**

*Dwarf Willow.*

Top. Bot. 377. *Purt.* iii. 72. Syme, E. B. viii. 246. 1356.

Native; damp heathy places. Rare. S. April-May.

First record, Bree, Midland Flora, 1821.

1. **TAME.** Sutton Park; Ballard's Green, Arley.

2. **BLYTHE.** Coleshill Heath, *Bree in Purt.* iii. 72. Coleshill Pool.

Var. *b. fusca* (Linn.) Syme, E. B. viii. 246. 1357.

1. **TAME.** Ballard's Green, Arley.

2. **BLYTHE.** Coleshill Pool! 1858, *Kirk.* Near Honiley, *Brom.*

Var. *f. incubacea*, Syme. Syme, E. B. viii. 247. 1361.

1. **TAME.** Ballard's Green, Arley.

2. **BLYTHE.** Coleshill Pool.

Var. *g. argentea* (Sm.) Syme, E. B. viii. 247. 1362.

1. **TAME.** Sutton Park, near Bracebridge Pool, 1886. Ballard's Green, Arley.

2. **BLYTHE.** Coleshill Pool, sparingly in 1876-84.

### **POPULUS. Linn.**

#### **\*P. alba, Linn.**

*Abele Tree. White Poplar.*

Syme, E. B. viii. 192. 1299.

Alien; parks, woods, and hedges. Rare. T. March,

First record, Baxter, MS., about 1840.

1. **TAME.** Coppice, near Moxhull Hall.

3. **ANKER.** Bentley Park; road from Wolvey to Three Pots, abundant.

4. **AVON.** By the river at Holbrook Grange, Rugby, *Blox.*, MS. Guy's Cliff, *Brom.* Lane, near Little Lawford Mill; several trees in hedges about a mile from Easington, near county boundary.

5. LEAM. Shuckburgh.
6. SOW. Binley, *Kirk, Herb. Brit. Mus.* Kenilworth, *Brom.*
7. STOUR. Honington, *Newb.* Ilmington.
8. ALNE. Umberslade.

**P. canescens, Sm.** *Grey Poplar.*

Top. Bot. 373. Syme, E. B. viii. 194. 1300.  
Native; woods and hedges. Rare. T. March.  
First record, Kirk, Herb. Brit. Museum, 1850.

1. TAME. Moxhull Hall grounds; Erdington; Atherstone Road, near Shus-toke.
2. BLYTHE. Hullery, near Sheldon, two or three trees; lane to Bickenhill; Marston Green.
4. AVON. Heathcote, near Warwick, *Y. and B.* Chesterton, *Brom.* Between Kineton and Edge Hill.
5. LEAM. Offchurch! *Y. and B.* Birdingbury! *Brom.* Southam Holt; Ufton Wood.
6. SOW. Stoke, *Kirk, Herb. Brit. Mus.* Spinney, near Stivichall.
7. STOUR. Honington! *Newb.*
8. ALNE. Kingswood.

**P. tremula, Linn.** *Aspen.*

Top. Bot. 373. Purt. ii. 479. Syme, E. B. viii. 196. 1301.  
Native; woods, coppices, and hedges. Frequent, and generally distributed.  
T. March.  
First record, Baxter, MS., about 1840.

Both varieties of this tree occur in the county; the var. *a. villosa* appears rare, the var. *b. glabra* is the most frequent. But these have not been sufficiently discriminated in my note book to allow of a faithful record of their separate distribution.

**\*P. nigra, Linn.** *Black Poplar.*

Top. Bot. 374. Purt. ii. 480. Syme, E. B. viii. 198. 1302.  
Alien; near rivers. Rare. T. March.  
First record, Bromwich, Herb. British Museum.

1. TAME. Near Curdworth Bridge.
2. BLYTHE. Near Three May Poles, Shirley.
3. ANKER. Near Burton Hastings.
4. AVON. Myton, near Warwick, *Brom.*, *Herb. Brit. Mus.*; this tree has been cut down. Near Dunchurch, *Rugby Sch. Rep.*, 1876. Near Moreton Morrell; near Salford Priors.
5. LEAM. Brook side, between Whitnash and Radford Semele, *Brom.* Rainsbrook, near Barby, *Rugby Sch. Rep.*, 1876.
7. STOUR. Honington. *Newb.* Near Atherstone-on-Stour.
8. ALNE. Aston Cantlow.
9. ARROW. By the River Arrow, at Broom.

## ORD. LXVI. EMPETRACEÆ.

## EMPETRUM. Linn.

**E. nigrum**, Linn.*Black Crowberry.*

Top. Bot. 363. Purt. ii. 746. Syme, E. B. viii. 93. 1251.

Native; damp heathlands. Very rare. S. April.

First record, Ray, 1670. *Erica haccifera procumbens nigra*, C. B. On black heathy grounds, in Warwickshire, Ray, Cat. Ed. 1., page 100.

1. TAME. On marshy land, by the New Park, Middleton. on that side of the wood near the London Road, *Gibson's Camden*, 1695, p. 516. Sutton Coldfield! *Purt.* ii. 746. Still abundant on Sutton Coldfield, but I have never seen it near the New Park or in any other part of Warwickshire.

## ORD. LXVII. CERATOPHYLLÆ.

## CERATOPHYLLUM. Linn.

**C. aquatilem**, E. B. Aggregate.*Common Hornwort.*

Top. Bot. 170. Purt. iii. 70. Syme, E. B. viii. 123. 1276.

Native; pools, rivers, and streams. Local and rare. P. July.

First record, Purton, Midland Flora, 1821.

2. BLYTHE. Berkswell Mill Pool, *Brom., Herb. Per.* Pool, near Berkswell Hall; pools at Springfield and Temple Balsall.
4. AVON. Chesterton Mill Pool, 1834; St. Nicholas Mill Pool, *Herb. Per.* Pool, near Blakedown Mill, short distance from the Leamington Road, *Baynes, MS.* Old canal, near Brownsover, *Rugby Sch. Rep.*, 1868. Burton Dassett, *Y. and B.* Canal at Newbold-on-Avon, *Rugby Sch. Rep.*, 1886. Pool by Oakley Wood; cattle pool, near Gaydon Inn.
5. LEAM. Itchington Holt; near Birdingbury Wharf.
6. SOW. In a stew of the Rev. Mr. Bree's, Allesley, *Purt.* iii. 70. Caludon House Wood, near Coventry, *Kirk, Herb. Per.* Sow Waste Canal, 1883, in flower.
8. ALNE. Abundant in large pool, Wootton Wawen.
10. CHERWELL. Small cattle pool, near Farnborough.

Both the species, *demersum* and *submersum*, occur in the county, but have not been sufficiently discriminated in my own note book for a faithful record of their distribution as segregates, and by the older botanists the plant has been always quoted as *C. aquaticum*.

## ORD. LXVIII. CONIFERÆ.

## TAXUS. Linn.

\**T. baccata*, Linn.

Yew.

Top. Bot. 380. Purt. ii. 484. Syme, E. B. viii. 277. 1384.

Alien or denizen; in old hedges, rarely in coppices. T. March-April.

First record, Kirk, Topographical Botany, Ed. 1.

This tree occurs at intervals throughout the county. I have, however, never seen it, as I should consider, truly naturalised. Some of the plants in the old hedges may be spontaneous growths, but on this point I have no reliable information.

\**Pinus sylvestris*, Linn. Numerous seedlings of this tree are found in our old woods. Possibly it may, at some remote date, have been native. Very large trunks have, it is said, been excavated from some depth below the surface soil, near the Old Roman Road in Sutton Park, and in other wild parts of the park. Some fine examples of this tree may be seen near Guy's Cliff, and on the Dunchurch Road, near Dunchurch.

*Juniperus communis*, L., used to grow on an old bridge near Warwick Castle.

## CL. II. MONOCOTYLEDONES.

## ORD. LXIX. HYDROCHARIDÆ.

## ELODEA. Michx.

\**E. canadensis*, Mich. *Anacharis Alsinastrum*, Bab. *Canadian Water Thyme*.

Syme, E. B. ix. 81. 1446.

Alien; rivers, canals, pools, and ditches. Common, and generally distributed, but local in flower. P. July-August.

First record, Kirk, *Phytologist*, 1851.

1. TAME. Sutton Park.
2. BLYTHE. Coleshill Pool; canal, Shirley Heath.
3. ANKER. Atherstone; Hartshill, in quarries; Nuneaton; Rye Hills, in the Anker; Burton Moors.
4. AVON. Pool, on Warwick Racecourse; River Avon, Warwick, *Brom*. Pit in an old quarry, near Little Lawford; canal, near Newbold-on-Avon.
5. LEAM. Canal, near Birdingbury Wharf; pool at Willoughby; canal, near Radford Semele.
6. SOW. Canal, Sow Waste! *Kirk, Phyt.* iv. 274. Pond, by Tile Hill Wood.
8. ALNE. Canal, Preston Bagot; Lowson Ford.

In all the above cited stations in abundant flower. In cold, damp seasons the flowers are rarely produced; but in hot, dry seasons they are often very abundant.

## ORD. LXX. ORCHIDÆ.

## NEOTTIA. Linn.

*N. Nidus-avis*, Rich. *Bird's-nest Orchis*.

Top. Bot. 382. *Purt.* ii. 426. Syme, E. B. ix. 122. 1478.

Native; woods, coppices. Rare. P. May-June.

First record, Purton, Midland Flora, 1817, *Ophrys Nidus-avis*, L.

1. TAME. Middleton Wood, *Bree in Purt.* ii. 426. Kingsbury Wood! *Mr. Boulton, Bree, Mag. Nat. Hist.* iii. 165.

2. BLYTHE. Coppice, near Elmdon Hall.
3. ANKER. Bentley Park.
4. AVON. In a coppice near Chesford Bridge, Stoneleigh, *Baynes, MS.* Chesterton Wood, *Miss Palmer.* Fletcher's Copse, Gaydon, *Bolton King.* Old Park, Warwick, *Brom.* Plantation, near Rugby, *Cumming.* Alveston Pastures, *Cheshire, Herb. Per.* Grove Park, *Pratt.* Near Barford.
5. LEAM. Ufton Wood, 1835, *Baynes, MS.* Longbrook Copse, Bishop's Itchington; Itchington Holt, *Bolton King.* Princethorpe Wood, *Cumming.* Frankton Wood, *Rugby Sch. Rep.*, 1886.
6. SOW. Combe Abbey Wood; near Wroxall Abbey.
8. ALNE. Bushy Wood (Lapworth), *Bree, Mag. Nat. Hist.* iii. 165.
9. ARROW. Ragley and Oversley Wood, *Purt.* ii. 426.

LISTERA. *R. Brown.*

*L. ovata*, *R. Br.*      *Tway Blade.*

Top. Bot. 383. *Purt.* ii. 425. Syme, E. B. ix. 120. 1477.  
Native; damp woods, damp, heathy waysides. Local. P. May to July.  
First record, Perry, List, 1817. *Ophrys ovata*, Linn.

1. TAME. Whitacre, *Grove.* Sutton Park; New Park, Middleton; Kingsbury Wood.
2. BLYTHE. Lanes about Elmdon; Olton; Hampton-in-Arden; Solihull; Shirley; pastures, near Knowle Railway Station; near Lowson Ford.
3. ANKER. Bentley Park; Baddesley Ensor; Oldbury; Hartshill Hayes.
4. AVON. Plantation, near Saltisford Common, Warwick, *Perry, List*, 1817. Coppice, near Chesford Bridge, *Baynes, MS.* Old Park Lane, *Perry, MS.* Salford Priors, *Caswell.* Lighthorne, *Miss Palmer.* Walton Woods, *Brom.* Near Rugby, *Rugby Sch. Rep.*, 1876. Alveston Pastures.
5. LEAM. Ufton Wood, 1836, *Perry, MS.* In a copse N. of Leamington, *Sm., Per. Fl.* 73.
6. SOW. Combe Woods.
7. STOUR. Honington, *Newb.* Whichford Wood; Wolford Wood; Pillerton Lazer; Lower Eatington.
8. ALNE. Rowington, *Brom.* Snitterfield Bushes; Drayton Bushes; Baddesley Clinton.
9. ARROW. Woods, near Moreton Bagot; Wire Hill, Sambourn; Oversley Wood; Ragley Wood.
10. CHERWELL. Wood, near Farnborough.

SPIRANTHES. *Rich.*

*S. autumnalis*, *Rich.*      *Ladies' Tresses.*

Top. Bot. 381. (*Ophrys spiralis*.) *Purt.* ii. 425. Syme, E. B. ix. 115. 1472.  
Native; old pastures. Rare. P. August to October.  
First record, Perry, List, 1817. *Neottia spiralis*, Sw.

4. AVON. Among *Ulex europaeus* in a field crossed by the footroad from Warwick to Hampton-on-the-Hill, *Perry, List*, 1817. In a field in the road from Bidford to Binton, and at Snitterfield, near the Lodge Farm, *Purt.* ii. 425. Corner of Badger's Wood, near Stratford-on-Avon, *Cheshire, Herb. Per.* Clopton, *Pratt.*
7. STOUR. In a grass field called Lower Gallows Hill, Honington, *F. Townsend.*

CEPHALANTHERA. *Rich.***C. ensifolia, Rich.***Sword-leaved Helleborine.*Top. Bot. 386. *Purt.* ii. 428. Syme, E. B. ix. 128. 1484.

Native; woods. Very rare. P. May-June.

First record, Purton, Midland Flora, 1817. *Serapias ensifolia*.

9. ARROW. Oversley Wood! Ragley Woods, *Purt.* ii. 428. In a thicket, Wixford Lane, *Purt.* iii. 380.

This was very abundant in Oversley Wood, in 1880-3.

**C. pallens, Rich.***White-flowered Helleborine.*

Syme, E. B. ix. 130. 1485.

Native. Very rare. Coppices. P. June-July.

First record, the Author, 1887.

10. CHERWELL. In a coppice, near Farnborough, July, 1887.

EPIPACTIS. *Rich.***E. latifolia, All.***Broad-leaved Helleborine.*Top. Bot. 384. *Purt.* ii. 429. Syme, E. B. ix. 124. 1480.

Native; woods, coppices, and bushy waysides. Local. P. July-August.

First record, Withering's Arrangement, 1801, *Serapias latifolia*, Linn.

1. TAME. In the Red Rock Plantation, Edgbaston, *With. Ed.* 4. ii. 40. Butler's Wood, near Maxstoke; Kingsbury Wood.
2. BLYTHE. Coleshill, *Bree, Mag. Nat. Hist.* iii. 165. Barber's Coppice, Hampton-in-Arden! *Rogers*. Heathy waysides, near Packwood Mill.
3. ANKER. Bentley Park; small wood, Shilton Fields, near Wolvey.
4. AVON. Coton, near Rugby, 1831, *Baxter, MS.* Leek Wootton, *Bree in Purt.* iii. 380. Edge Hill Wood;\* Warnbury Wood!\* Waverley Wood, Stoneleigh, *Kirk, Herb. Per.* Near Charlote; on the roadside to Wellesbourne and Edge Hill, *Cheshire*. Oakley Wood, 1831; in a thicket by the side of the Avon, Milverton; plantation near the Swiss Cottage, Guy's Cliff, *Baynes, MS.* Old Brook Coppice, near Leek Wootton, *Perry, MS.* Baly's Locks, *Perry, List*, 1817. Hill Wootton; Warwick Old Park; Primrose Lane, Warwick, *Brom.* Fletcher's Copse, Gaydon, *Bolton King*. Between Brownsover and Clifton Mills, *Rugby Sch. Rep.*, 1876.
5. LEAM. Near Leamington, on the N. road to Warwick, *Smith, Per. Fl.* 73. Newbold Comyn, *Baynes, MS.* Cubbington Wood.
6. SOW. Whitley Wood,\* *Kirk, Herb. Bab.* Rounsel Lane, *Brom.* Allesley, *Bree in Purt.* iii. 380. Combe Woods; Tile Hill Woods.
7. STOUR. Wood at Pillerton Lazer.
8. ALNE. Coppice Lane from Yarningale to Crab Mill; Austey Wood, Wootton Wawen; Snitterfield Bushes; wood, near Pinley Green.
9. ARROW. Ragley Woods, *Purt.* ii. 429. Oversley Wood.

The plants from the localities marked with an asterisk, thus (\*), are labelled *E. media* by the collector, but I think that they are all referable to *E. latifolia*. *E. latifolia* varies much in the shape of the leaves, in the flowers being in dense or lax racemes, and in the basal ridges being rugose or smooth, the latter character being remarkably inconstant. I find that of two plants from the same rootstock,

one will have the processes smooth and the other distinctly rugose plicate. Plants from some of the above cited districts have been submitted to Mr. J. G. Baker, F.R.S., and he pronounces them to be *E. latifolia*, thus confirming my own opinion. A plant pointed out by Mr. Baker in a wood near Matlock as true *E. latifolia* was also carefully compared with fresh Warwickshire specimens.

\**E. violacea*, Bor. Warwick, "Kirk, Cat." in *Top. Bot.* 384, is probably the above plant.

***E. palustris*, Crantz.**

*Marsh Helleborine.*

*Top. Bot.* 385. *Purt.* ii. 429. Syme, E. B. ix. 126. 1482.

Ambiguity; bogs and marshy places. Very rare. P. May-June.

First record, Purton, Midland Flora, 1817. *Serapias longifolia*.

2. BLYTHE. \*Bogs, Coleshill, *Bree, Mag. Nat. Hist.* iii. 165. \*Bannersley Pool, *Smith, Per. Fl.* 74.

8. ALNE. Near Baddesley Clinton, *D. Brodie*.

9. ARROW. \*Oversley Wood, *Purt.* ii. 429.

\*I have carefully searched these localities many times, but have never been able to find this plant in either. The only *Epipactis* which now occurs in Oversley Wood is *E. latifolia*, and this is not recorded from that locality by Purton.

**ORCHIS. (L.) Rich.**

***O. pyramidalis*, Linn.**

*Pyramidal Orchis.*

*Top. Bot.* 388. *Purt.* ii. 421. Syme, E. B. ix. 91. 1449.

Native; marly and calcareous pastures, woods, and copses. Rare. P. June-July.

First record, Perry, List, 1817.

4. AVON. Pillerton, *Perry, List*, 1817. Walton Hall, *Per. Fl.* 72. In a field near Milverton, 1831, *Baynes, MS.* Canal bank, near Newbold Tunnel, *Rugby Sch. Rep.*, 1877. Moreton Morrell, *Y. and B.* Compton Verney, *Bolton King.* Lighthorne, *Miss Palmer*.

5. LEAM. In the corner of Whitnash Fields, near the crossing of the Fosse Road, *Perry, MS.*

8. ALNE. Grafton, *Purt.* ii. 422. Drayton Bushes! *Cheshire, Herb. Per.* Pastures, bridle road from Billesley to Wilmcote; Drayton Rough Moors.

9. ARROW. Ragley Park, *Purt.* ii. 422.

***O. Morio*, Linn.**

*Green-winged Orchis.*

*Top. Bot.* 387. *Purt.* ii. 421. Syme, E. B. ix. 96. 1454.

Native; meadows, pastures. Local. P. May to July.

First record, Bree, Magazine of Natural History, 1829.

1. TAME. Curdworth; Over Whitacre; Nether Whitacre; Hurley.

2. BLYTHE. Coleshill, with white flowers, *Bree, Mag. Nat. Hist.* i. 393. Coleshill Heath; Solihull; Packwood; near Earlswood; Knowle; near Honiley.

4. AVON. Lighthorne, *Miss Palmer*. Lodge Woods, Salford, *Caswell*. Oakley Wood; Hampton-on-the-Hill, *Brom.* Moreton Morrell; near Little Kington, abundant.

5. LEAM. Near Rainsbrook, *Rugby Sch. Rep.*, 1876.
6. SOW. Wroxall, *Brom.* Honiley.
7. STOUR. Honington; Shipston-on-Stour, *Newb.*
8. ALNE. Rowington! *Brom.* Kingswood; Aston Cantlow.
9. ARROW. Studley, in a pasture near the church; hilly moor, near Morton Bagot.

**O. maseula, Linn.***Early Purple Orchis.*

Top. Bot. 387. Purt ii. 419. Syme, E. B. ix. 97. 1455.  
Native; banks, coppices. and woods. Local. P. May-June.  
First record, Perry, Herb. Perry, 1825.

1. TAME. Shustoke, *Grove.* Near Moor Hall, Sutton; Nether Whitacre.
2. BLYTHE. Small Heath, in pasture near the canal; coppice, near Bedlam's End, Knowle.
3. ANKER. Seas Wood, Arbury.
4. AVON. Spinneys, Cathiron Lane, *Rugby Sch. Rep.*, 1876. Lighthorne, *Miss Palmer.* Chesterton! *Y. and B.* Oakley Wood! *Brom.* Friz Hill; Compton Verney; Alveston Pastures Wood; Red Hill, near Alcester; Cathiron Lane, near Rugby.
6. SOW. Combe Woods.
7. STOUR. Honington, *Newb.*
8. ALNE. Drayton Bushes; Snitterfield Bushes.
9. ARROW. Copse, hilly ground, near Morton Bagot.
10. CHERWELL. Copse, near Farnborough.

**O. incarnata, Linn.**

Syme, E. B. ix. 100. 1457.  
Native; marshes. Rare. P. July.  
First record, the Author, 1884.

2. BLYTHE. Marshy field, near Olton Pool; marsh, near Great Packington.
4. AVON. Chesterton Mill Pool, *Brom.* Canal bank at Newbold, *Rugby Sch. Rep.*, 1886. Binton Bridges.
7. STOUR. Boggy ground, near Halford! *Newb.*

**O. latifolia, Linn.***Marsh Orchis.*

Top. Bot. aggregate, 389. Purt. ii. 423. Syme, E. B. ix. 100. 1458.  
Native; marshes, marshy meadows. Rare. P. June-July.  
First record, Perry, List, 1817 (aggregate).

1. TAME. Sutton Park.
2. BLYTHE. Bogs, Coleshill, *Bree, Mag. Nat. Hist.*, iii. 164. Hill Bicken-hill.
4. AVON. Near Baly's Locks, Warwick, *Perry*, 1817. Warwick, *Herb. Per.* Tachbrook, *Y. and B.* Near Brownsover, *Rugby Sch. Rep.*, 1877. Lighthorne, *Miss Palmer.* Myton, Warwick, *Brom.* Chadshunt, *Bolton King.* Near Harborough Magna.
7. STOUR. Near Honington and Halford, *Newb.*
8. ALNE. Baddesley Clinton; marshy field, near Lowson Ford.
9. ARROW. Morton Bagot, *Slatter.*

**O. maculata**, Linn.

*Spotted Orchis.*

Top. Bot. 390. Purt. ii. 421. Syme, E. B. ix. 101. 1459,  
Native; bogs, wet pastures, woods, and waysides. Common, and generally  
distributed. P. May to July.  
First record, Bree, Mag. Nat. Hist., 1829, with white flowers, at Coleshill and  
Allesley.

I find the form with white flowers in Sutton Park, at Hill Bickenhill, and  
several other localities.

**OPHRYS.** Linn.

**O. apifera**, Huds.

*Bee Orchis.*

Top. Bot. 394. Syme, E. B. ix. 111. 1469.  
Native; banks in lias soils. Rare. P. July.  
First record, Miss C. E. Palmer, 1852.

1. TAME. Railway bank, near Arley! *Mr. Orton*. Quite abundant. 1890.
4. AVON. Combrook, *Miss Palmer*, 1852. Compton Verney, *Brom.* Hamp-  
ton-on-the-Hill, *Pratt*. Old Lime Pits, Newbold; canal, near  
Newbold Tunnel, *Rugby Sch. Rep.*, 1876. Piper's Bolt, Lighthorne,  
*Bolton King*. Canal bank, near Clifton, *Cumming*.
5. LEAM. Roadside, Harbury, near the Fosseway; near Birdingbury Wharf,  
*Brom.* Railway bank, near Harbury Railway Station.
8. ALNE. Canal cutting, Rowington, *Brom.* Near Rowington! *Miss Betts*.  
Near Claverton, *Rev. P. B. Brodie*. Footpath from Billesley to Wilm-  
cote; canal bank, near Bearley; meadows, near Shrewley Canal  
Tunnel.

**HABENARIA.** R. Brown.

**H. conopsea**, Benth. *Gymnadenia conopsea*, R. Br. *Fragrant Orchis.*

Top. Bot. 390. Purt. ii. 423. Syme, E. B. ix. 102. 1460.  
Native; marshes, marly banks, and old pastures. Rare. P. July.  
First record, Purton, Midland Flora, 1817, *Orchis conopsea*, L.

2. BLYTHE. Chelmsley Wood; Bannersley Pool, *Bree in Purt.* ii. 422.
4. AVON. Lighthorne. *Miss Palmer*. Gaydon, *Bolton King*.
5. LEAM. Whitnash Pastures, *Brom.*
8. ALNE. Canal siding, near Rowington.
9. ARROW. Cold Comfort; Oversley, *Purt.* ii. 423. Ipsley! *Slatter*.

**H. viridis**, R. Brown.

*Frog Orchis.*

Top. Bot. 392. Purt. ii. 427. Syme, E. B. ix. 105. 1462.  
Native; old pastures. Rare. P. June-July.  
First record, Purton, Midland Flora, 1817. *Satyrium viride*, L.

4. AVON. Near Stratford-on-Avon, *Cheshire*. Hampton-on-the-Hill, *Brom.*  
Lighthorne, *Miss Palmer*. Fletcher's Copse, Gaydon, *Bolton King*.
6. SOW. Honiley, *Brom.*, *Herb. Per.* Rounsel Lane; Kenilworth, *Brom.*
8. ALNE. Grass field, near Rowington, *Rev. P. B. Brodie*.
9. ARROW. Meadows about Cold Comfort; Oversley Hill, *Purt.* ii. 427.  
Old pastures, Ipsley! *Slatter*.

**H. bifolia**, *R. Br.*      *Lesser Butterfly Orchis.*

Top. Bot. 390. Syme, E. B. ix. 106. 1464.

Native ; old pastures. Very rare. P. July.

First record as a segregate, Cheshire, Herb. Perry, 1850.

4. AVON. Large field on the Comyns Farm, between the houses and Clopton, Cheshire, Herb. Per. Lighthorne, Miss Palmer.

*H. bifolia* is recorded from Warwickshire, on the authority of *T. Kirk*, in Topographical Botany ; he does not record *H. chlorantha*, so that probably his plant may have been that species. The plant above recorded appears to be correctly named, but it is the only authenticated record for this plant in Warwickshire that I have seen. Miss Palmer's plant I have not seen.

**H. chloroleuca**, *Ridley*. *Orchis bifolia*, Linn. *Habenaria chlorantha*, Bab. *Greater Butterfly Orchis.*

Top. Bot. 392. Purt. ii. 420. Syme, E. B. ix. 107. 1463.

Native ; damp woods and copses. Very local. P. June-July.

First record, Perry, List, 1817, *Orchis bifolia*, L.

1. TAME. Kingsbury Wood.
2. BLYTHE. Asbury's Coppice, Hampton-in-Arden, *Rogers*. Coppice, near Blossom Fields, Solihull ; Shelly Coppice ; coppice near Bedlam's End.
4. AVON. Plantations, near Saltisford Common, Warwick, *Perry, List*, 1817. Bridle road, Wolverton to Langley ; in a plantation near Sherborne, *Perry, MS.* In Oakley Wood, near the turnpike ! *Baynes, MS.* Near Wellesbourne, *Cheshire, Herb. Per.* Old Park, Warwick ; Chesterton Wood ; Lillington, *Brom.* Near Dunchurch, *Baynes, MS.* Canal, near Clifton, *Rugby Sch. Rep.*, 1877. Lodge Woods, Salford Priors, *Caswell*. Chadshunt, *Bolton King*. Compton Verney ; Alveston Pastures ; Red Hill.
5. LEAM. Bascote Heath, *Baynes, MS.* Ufton Wood ! *Perry, MS.* Harbury, *Brom.*
8. ALNE. Near Wilmcote, *Blox. in Litt.* Near Preston Bagot, *Rev. P. B. Brodie*. Drayton Bushes.
9. ARROW. Spinny, near Coughton Mill ; bridle road to Great Alne.

The older records, such as those of *Baynes* and *Perry*, are under the old aggregate name *Orchis bifolia*, L. I have included them under the present name, as in some instances I know, from having seen the plants in the localities given by them, that *H. chloroleuca* was the plant intended by them.

## ORD. LXXI. IRIDEÆ.

## IRIS. Linn.

**I. foetidissima**, Linn.      *Stinking Gladdon. Roast Beef Plant.*

Top. Bot. 396. Purt. i. 61. Syme, E. B. ix. 143, 1494.

Native ; woods, copses, and marly banks. Rare. P. June-July.

First record, Rufford, Midland Flora, 1817.

4. AVON. Near Rugby, *Baxter, MS.* Chesterton Wood ; Compton Verney, *Brom.* Grove Park, *Pratt, Herb. Per.*

6. SOW. Beausale, *Brom.* Field by Astley Pool.
8. ALNE. Alne Hills, *Rufford in Purt.* i. 61. Drayton Rough Moors, abundant; marly banks, bridle road from Wilmcote to Billesley.
9. ARROW. Oversley Wood, abundant.

**I. Pseudacorus**, *Linn.* Var. *b. acoriformis* (Bor.) *Yellow Iris.*

Top. Bot. 397. *Purt.* i. 60. Syme, E. B. ix. 145. 1495.  
Native; rivers, streams, pools, and marshes. Common, and generally distributed. P. May-June.  
First record, Dr. Lloyd, Herb. Perry, 1835, near Warwick.

**CROCUS.** *Tournef.*

**\*C. nudiflorus**, *Sm.* *Naked-flowering Crocus.*

Top. Bot. 397. Syme, E. B. ix. 154. 1500.  
Denizen; old pastures. Very rare. P. October.  
First record, Perry, List, 1817.

4. AVON. Pigwell Fields and Lammas Fields, Warwick, *Perry, List*, 1817.  
Under four trees in the Priory Field, near the boundary wall, 1837, *Perry, MS.* Budbrook, *Brom.*

[\*\**C. vernus*, All., is recorded from Sheldon and Marston Green, by the *Rev. J. Gorle*, probably a mere waif or outcast from gardens.]

ORD. LXXII. AMARYLLIDÆ.

**NARCISSUS.** *Linn.*

**N. Pseudo-narcissus**, *Linn.* *Daffodil. Lent Lily.*

Top. Bot. 397. *Purt.* i. 168. Syme, E. B. 157. 1501.  
Native; woods and pastures. Locally abundant. P. March to May.  
First record, Ray, Catalogus, 1670. *Narcissus sylvestris pallidus calyce luteo*, C. B.

1. TAME. Near Sutton Coldfield, towards Middleton! abundantly, *Ray, Cat. Ed.* i. 1670. 219. Covers a whole field on the road from Birmingham to Sutton, *With. Ed.* 4, page 325. Sutton Park, *A. W. Wills.* Doe Bank, near Sutton; Wyld Green; abundant in Trickle Coppe, Middleton; pastures, near Penns; near Gospel Oak, Shustoke; pastures on the W. side of Arley Railway Station.
2. BLYTHE. Pastures, near Elmdon; pastures, Shirley Heath.
4. AVON. Salford Priors, *Carwell.* Lighthorne Rough, *Miss Palmer.*
6. SOW. Kenilworth; Honiley, *Y. and B.*
8. ALNE. Near Shrewley Pool, *Brom.* Haywood.
9. ARROW. Studley and Sambourn, in great plenty, *Purt.* i. 168.

[The var. *major*, Linn., is sometimes found in some abundance, as near Elmdon, and in Wedgnock Park, Warwick, but is merely an introduced plant.]

[\*\**N. incomparabilis*, Mill. Syme, E. B. ix. 160. 1502.

This occurs in the semi-wild state at Guy's Cliff, but has probably been at one time cultivated in the gardens there.]

**\*N. biflorus, Curt.**

Syme, E. B. ix. 161. 1503.

Alien; pastures. Very rare. P. April-May.

First record, Perry, *Plantæ Selectæ*, 1820.

3. AVON. In the Lammas Fields, Warwick, *Per. Fl.* 29. Old Park, Warwick, *Herb. Per.*

6. SOW. Haseley, *Y. and B.* Honiley, *Brom.*

8. ALNB. Near Billesley Hall, semi-wild.

**\*N. poeticus, Linn.**

Syme, E. B. ix. 162. 1504.

Alien; pastures. Very rare. P. April-May.

First record, Bree, *New Botanist's Guide*, 1837.

6. SOW. A field in the parish of Fillongley is full of it. Some of the flowers are single, others double, probably not truly native, *Bree, New Bot. Guide Sup.*, 1837. In a field near Blaber's Hall, *Wats. Cyb. Brit. Comp.* 580.

**\**Leucojum aestivum*, Linn. Syme, E. B. ix. 164. 1505.**

Is recorded as probably wild by the side of the Avon, near Stratford-on-Avon, *Purt.* i. 174. No one appears to have found this in that locality since Purton's time. Once found above Rugby Mill, *Blox., N. B. G.*, 1835.

**GALANTHUS. Linn.**

**\*G. nivalis, Linn.**

*Common Snowdrop.*

*Purt.* i. 170. Syme, E. B. ix. 167. 1507.

Denizen; coppices and banks. Rare. P. February to April.

First record, Countess of Aylesford, 1805.

1. TAME. Meadow, Erdington, really wild, *B. F. Westcott*, 1836. Wood, near Middleton Hall.

2. BLYTHE. Packington, *Aylesford, B. G.*, 634. Coppice by canal bank, near Olton Pool.

3. ANKER. Coppice, near Oldbury Hall, escape?

4. AVON. In a field, near Wedgnock Park, Warwick, *Per. Fl.* 28. Golden Green Wood, Warwick, *Kirk, Herb. Brit. Mus.* Old Park, Warwick, *Herb. Per.* Hatton Rock.

5. LEAM. Coppice, Birdingbury, *Brom.*

6. SOW. Honiley, *Y. and B.* Combe Woods.

9. ARROW. On the side of the Ridgeway, *Purt.* i. 170.

## ORD. LXXIII. DIOSCOREÆ.

## TAMUS. Linn.

**T. communis**, Linn.*Black Bryony.*

Top. Bot. 407. Purt. ii. 477. Syme, E. B. ix. 170. 1508.

Native; woods, hedges, bushy places. Common, and generally distributed.

P. June to August.

First record, Bree, New Botanist's Guide, 1835.

## ORD. LXXIV. LILIACEÆ.

[\*\**Asparagus officinalis*, Linn. Syme, E. B. ix. 182. 1515. Casual; Coton End, Warwick. Established on a wall for many years, *Herb. Per.* This is still there, but does not flower.]

[\*\**Polygonatum multiflorum*, All. (Top. Bot. 405.) Syme, E. B. ix. 177. 1513. Casual; Mayfield Lane, Snitterfield, *Cheshire, Herb. Per.*, 1850. Single specimen, Honington, *Newb.*]

[\*\**P. officinale*, All. Solomon's Seal. Syme, E. B. ix. 177. 1512. Casual; near Haseley, *Brom.* Hedgerow, Erdington, *B. F. Westcott*, 1836.]

Probably all the foregoing are mere waifs or escapes from cultivation, and have no claim to be considered part of the flora of this county.

## CONVALLARIA. Linn.

**C. majalis**, Linn.*Lily of the Valley.*

Top. Bot. 404. Purt. i. 174. Syme, E. B. ix. 180. 1514.

Native; old woods. Rare. P. May-June.

First record, Bree, Midland Flora, 1817.

1. TAME. Hoare Park, near Shustoke; Kingsbury Wood.
2. BLYTHE. Shelly Coppice, abundant, but rarely flowering.
3. ANKER. Bentley Park! *Bree, Mag. Nat. Hist.* iii. 164. Friar Park Wood, *Mrs. Oakshot.*
4. AVON. The Grove, Stoneleigh Park, probably planted.
5. LEAM. Ufton Wood, *Bolton King.*
6. SOW. Corley Woods, *Bree in Purt.* iii. 351. Allesley, *Bree, Mag. Nat. Hist.* iii. 174. Chase Woods; Haseley Woods, *Herb. Per.* Wroxall Poor's Wood, *Brom.* Honiley Wood, *ICK, Remarkable Plants*, 1838.
8. ALNE. Haywood! *Bree in Purt.* i. 174. Austey Wood, near Wootton Wawen.
9. ARROW. Wood, near Alcester, *Herb. Per.* Morgrove Coppice, Spennall.

## ALLIUM. Linn.

**A. vineale**, Linn. Var. *c. compactum* (Thuill.)*Crow Garlic.*

Top. Bot. 399. Purt. i. 169. Syme, E. B. ix. 210. 1534.

Native; cultivated fields, in lias and marly soils. Local. P. June-July.

First record, "Lloyd sp.," Topographical Botany, Ed. 1.

4. AVON. Moreton Morrell ; Lammas Fields, Warwick, *Brom.* Lighthorne, *Miss Palmer.* Abundant in cornfields, near Binton.
5. LEAM. Harbury, *Y. and B.*
6. SOW. Kenilworth, *Brom.*
7. STOUR. Common about Tredington, *F. Townsend.* Roadside, near Halford ; Wimpstone Fields.
8. ALNE. Cornfields, near Ullenhall ; cornfields in bridle road from Wilmcote to Billesley, too abundant ; cornfields, near Drayton Bushes.
9. ARROW. Near Studley.

**A. oleraceum, Linn.***Field Garlic. Wild Onion.*

Top. Bot. 399. *Purt.* i. 169. Syme, E. B. ix. 212. 1535.  
 Native ; bushy places and amongst corn. Rare. *P.* July-August.  
 First record, Perry, List, 1817.

4. AVON. Calcareous fields west of Stratford-on-Avon, *Dr. Lloyd, Herb. Per.*, 1835. Fields by the road from Stratford to Salford Priors, near Dodwell, in that neighbourhood called "Wild Onions," *Perry, MS.* Kineton, *Bolton King.*
5. LEAM. Near Leamington, *Perry, List*, 1817. Side of the footpaths, between Leamington and Emscote, *Per. Fl.* 29. Radbourne, *Bolton King.*
7. STOUR. Blackwell Bushes ! "specimen from Miss Townsend," *Bolton King.* Bushy pasture, near Honington.
9. ARROW. In a field by Rosall (Rose Hall, near Alcester), *Purt.* i. 169. Near Exhall, in a plantation, *Herb. Per.*

**A. ursinum, Linn.***Ramsons. Garlic.*

Top. Bot. 401. *Purt.* i. 169. Syme, E. B. ix. 218. 1540.  
 Native ; damp woods, shady banks, and by streams and rivers. Locally abundant. *P.* May-June.  
 First record, Withering's Arrangement, 1801.

1. TAME. Several pastures, near Penn's Mill, at Erdington ! abound so much with this plant as to be called "Garlick Meadows," *With. Ed.* 4. 328. Banks at Hay House, Castle Bromwich ! in great plenty, *Purt.* i. 170. Shady banks near Moor Hall, Sutton ; New Park, Middleton, abundant ; Erdington ; banks of the Tame, near Water Orton ; Brook End, Hurley ; Kingsbury Wood.
2. BLYTHE. Blythe Bridge, near Solihull ; Olton Pool ; footway from Knowle Station to Hockley.
3. ANKER. Bentley Park ; Atherstone Outwoods ; Birch Coppice ; Grendon ; Hartshill Hayes.
4. AVON. Salford Priors, *Caswell.* Binton ; Red Hill ; Warwick Old Park.
6. SOW. Honiley Brook, *Y. and B.* Wood at Honiley ; Haseley, *Brom.*
8. ALNE. On the banks of a brook, on Mr. Hill's Farm in the parish of Lapworth, *Perry, MS.* Rowington ! Holywell ! *Brom.* Henley-in-Arden ; Drayton Bushes ; Preston Bagot.
9. ARROW. Spennall ! and Oversley Woods ! *Purt.* i. 169. Washford, near Studley ; Spennall, by the Arrow ; spinny, near Morton Bagot.

## SCILLA. Linn.

**S. nutans**, Sm. *Hyacinthus non-scriptus*, L. *Wood Hyacinth. Blue Bell.*

Top. Bot. 403. Purt. i. 171. Syme, E. B. ix. 200. 1528.

Native; woods, coppices, hedge banks, and waste places. Common, and generally distributed. P. May-June.

First record, Bree, Magazine of Natural History, 1829, with white flowers.

Var. *flore-albo*.

1. TAME. New Park. Middleton; Kingsbury Wood; Arley.
2. BLYTHE. Shelly Coppice.
3. ANKER. Bentley Park; Hartshill Hayes.
4. AVON. "The *Scilla nutans* occurs perfectly white in a small wood close to Chesford Bridge, near Kenilworth, and likewise at Leamington, in a wood attached to the beautiful cottage of R. Poole, Esq., solicitor."—*W. H. R. N.*, 1829, *Mag. Nat. Hist.* ii. p. 70. Oakley Wood.
5. LEAM. Ufton Wood.
6. SOW. At Allesley, *Bree*, *Mag. Nat. Hist.* i. 392.
8. ALNE. Between Norton Lindsay and Wolverton, *Perry*, MS.

## ORNITHOGALUM. Linn.

**\*O. umbellatum**, Linn.

*Common Star of Bethlehem.*

Syme, E. B. ix. 195. 1524.

Alien; old pastures. Very rare. P. April-May.

First record, Perry, List, 1817.

4. AVON. Godfrey's Lammas, Warwick, *Perry*, 1817. Meadows by the Avon, Warwick, *Bree*, *Mag. Nat. Hist.* iii. 164. In Russell's Lammas, Warwick, *Perry*, MS. Osier bed opposite the church, Warwick, *Brom.*, *Herb. Per.* In great quantities in the Oldbury Fields, Lighthorne, *Miss Palmer*.
7. STOUR. At Fullready, May, 1862, *Bloxam*, MS.

[\*\**O. nutans*, Sm., is recorded from grounds near Offchurch, *Brom.*, and from Whateley Hall grounds, Castle Bromwich, *J. B. Stone*.]

[\*\**Lilium Martagon*, Linn. Arbury Hall, *Kirk*, *Herb. Per.* Warwick Castle Park, *Brom.* Near Corley! *M. C. Potter*. Two fine plants pointed out by *Mr. F. Townsend* in a copse by the Stour, near Tredington, *Newb. in Litt.* Merely waifs from cultivation.]

## FRITILLARIA. Tournef.

**F. Meleagris**, Linn.

*Fritillary.*

Top. Bot. 398. Purt. iii. 31. Syme, E. B. ix. 188. 1519.

Denizen; old pastures. Very rare. P. April-May.

First record, Perry, List, 1817.

3. ANKER. Abundant in the Fritillary Fields, near Tamworth, 1879, *E. De Hamel*.
4. AVON. Brought from Godfrey's Lammas, Warwick, 5, 1825, *Perry*, MS.
8. ALNE. Wroxall Field, *Perry*, 1817. In a meadow by the roadside, opposite Wroxall Abbey, 5, 1827, *Perry*, MS.

TULIPA. *Linn.***\*T. sylvestris, Linn.***Wild Tulip.*

Purt. i. 172. Syme, E. B. ix. 190. 1520.

Alien; old pastures. Very rare. P. April.

First record, Bree, Midland Flora, 1817.

1. TAME. In meadows by the Bourne at Shustoke, *Bree in Purt.* iii. 381.
2. BLYTHE. Springfield, near Knowle, *Brom.*
4. AVON. Pigwell Fields, near Warwick, *Herb. Perry.* Still to be found in this station, but rarely in flower. Lammas Fields, Warwick, *Brom.*
6. SOW. Allesley, *Bree in Purt.* i. 172.

GAGEA. *Salisb.***G. fascicularis, Salisb.***Yellow Star of Bethlehem.*Top. Bot. 402. Syme, E. B. ix. 193. 1522. *Gagea lutea*, Ker.

Native; old pastures, near streams. Very rare. P. April.

First record, Rev. J. Gorle, 1837.

1. TAME. Banks of the Tame, Curdworth.
2. BLYTHE. Sheldon, 1837. *J. Gorle.* Banks of a stream at Elmdon, near the Cock Inn.

COLCHICUM. *Linn.***C. autumnale, Linn.***Meadow Saffron.*

Top. Bot. 407. Purt. i. 183. Syme, E. B. ix. 225. 1544.

Native; damp pastures, woods, and copses. Local. P. August-September.

First record, Countess of Aylesford, 1805.

1. TAME. Beanfield Meadows, near Sutton, *Power, MS.* Near Birches Green; abundant in pastures, near Water Orton Railway Station.
2. BLYTHE. Packington, *Aylesford, Bot. Guide*, 635. Sheldon, *Gorle.* pasture, near Small Heath; Hockley, near Knowle.
4. AVON. Barford Meadows, *Perry, MS.* Roadside between Norton Lindsay and Wolverton, *Perry, MS.* Oakley Wood, *Baynes, MS.* Norbrook; Barford, &c., *Per. Fl.* 33. Alveston Pastures; meadows by Binton Bridges.
6. SOW. Pinley, *Kirk, Phyt.* ii. 971. In a meadow about one mile from Brinklow on the Ansty Road, *Blox., MS.* Wroxall; Kenilworth, *Brom.* In woods and meadows near Allesley and Meriden.
7. STOUR. Idlicote Wood, *Gorle.* Armscote Meadows, *F. Townsend.* Near Long Compton, *Baxter, Ph. Bot.* vol. i., 1833.
8. ALNE. Willmote, *Blox.* Near Rowington, *Grove.* Baddesley Clinton! *Brom.* Drayton Bushes; Drayton Rough Moors; Bearley Bushes; meadows, Ullenhall.
9. ARROW. Oversley Wood; Sambourn; Studley.

Var. *flor.-albo.* Meadows, Whitacre, *Bree in Purt.* i. 183.NARTHECIUM. *Mæhr.***N. ossifragum, Huds.***Bog Asphodel.*

Top. Bot. 403. Purt. i. 172. Syme, E. B. ix. 222. 1542.

Native; bogs and marshy places. Very rare. P. July-August.

First record, Withering's Arrangement, 1787.

1. TAME. Birmingham Heath, *With. Ed.* 2. i. 351. Sutton Park, probably dying out in this locality, very sparingly represented, 1883.
2. BLYTHE. Coleshill Bog! *Purt.* i. 172. South side of Bannersley Pool, *Smith in Per. Fl.* 30. Hill Bickenhill, abundant; near Marston Green, abundant, 1883.

Drainage and reclamation will probably soon exterminate this plant.

### PARIS. *Linn.*

#### *P. quadrifolia*, *Linn.* *Herb Paris.*

Top. Bot. 405. *Purt.* i. 201. Syme, E. B. ix. 173. 1509.

Native; woods. Rare. P. May to July.

First record, Countess of Aylesford, Bot. Guide, 1805.

1. TAME. Arley Wood, *Grove*. Trickley Coppice, and New Park, Middleton.
2. BLYTHE. Locke's (Loache's) Rough. near Coleshill, *Aylesford*, *B. G.* 625. In a wood at Packington Outwoods, to the E. of Packington Park, *Smith, Per. Fl.* 37. Bannersley Rough! Coleshill; Fillongley, *Bree, Mag. Nat. Hist.* iii. 164. Boggy ground, near Solihull, *Ick, Anal.*, 1837. Coppice, near Solihull.
3. ANKER. Hartshill Hayes; Gin Wood, Oldbury.
4. AVON. Lodge Woods, Salford Priors, *Caswell*.
5. LEAM. Ufton Wood, *Perry, MS.*, 1836.
6. SOW. Near Wroxall Abbey! *Herb. Per.* Honiley Wood, *Ick, Anal.* Plentiful in Combe Woods! *Rugby Sch. Rep.* 1868. Crackley, *Y. and B.*
8. ALNE. Claverdon, *Herb. Per.* Austey Wood, *Miss Palmer*. Rowington! *Y. and B.* Quarry Lane, near Rowington! *Brom.* Chalcote Wood, near Umberslade; Bearley Bushes; near Haywood.
9. ARROW. Spennall Park, *Purt.* i. 202.

## ORD. LXXV. JUNCACEÆ.

### JUNCUS. (*L.*) *DC.*

#### *J. bufonius*, *Linn.* *Toad Rush.*

Top. Bot. 433. *Purt.* i. 177. Syme, E. B. x. 34. 1572.

Native; damp roadsides, drains, and woods. Common, and generally distributed.

A. July to September.

First record, Ick, Analyst, 1837, Saltley.

Var. *b. fasciculatus*, Koch. Rare. E. B. x. 34, 1573.

1. TAME. Sutton Park, *Grove*.
2. BLYTHE. Hell Common, *Brom.* Sandy roadsides, near Coleshill.
8. ALNE. Yarningale Common; Lye Green.

The varietal characters are scarcely constant in this variety, as in the one tuft I find branches with the flowers two or three in a cluster, and other branches with flowers solitary as in the type. It is, however, always a much dwarfed plant.

#### *J. squarrosus*, *Linn.* *Heath Rush.*

Top. Bot. 434. *Purt.* i. 176. Syme, E. B. x. 38. 1576.

Native; heaths, and heathy roadsides. Very local. P. June-July.

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park.
2. BLYTHE. Coleshill Heath ! *Purt.* i. 176. Marston Green ; sand quarry, Cornets End ; Honiley.
3. ANKER. Baddesley Common.
6. SOW. Haseley, *Y. and B.*
7. STOUR. Wolford Heath.

**J. Gerardi, Lois.** *Mud Rush.*

Syme, E. B. x. 37. 1574.

Native ; near rivers and in brackish marshes. Rare. P. June.  
First record, Cheshire, Herb. Perry, *Juncus compressus*, Jacq.

3. ANKER. Canal side, near Hartshill, 1887.
  4. AVON. Near Stratford-on-Avon Church, *Cheshire, Herb. Per.*, Chesterton ! *Brom.*
  5. LEAM. Southam Holt, *Brom.* Beside Napton Reservoir, *Trott, Rugby Sch. Rep.*, 1878.
  7. STOUR. In a meadow by the Stour, a little below Tredington, *F. Townsend.* Near St. Dennis, *Newb.*
  9. ARROW. Arrow Lane, near Alcester, in a dried-up pit.
- All the Warwickshire plants seem to belong to this species.

**J. glaucus, Ehrh.** *Hard Rush.*

Top. Bot. 430. *J. inflexus.* *Purt.* i. 176. Syme, E. B. x. 25. 1563.  
Native ; marshes, near pools, waysides, &c. Common and generally distributed.  
P. June-July.  
First record, Baxter, MS., 1835.

**J. diffusus, Hoppe.**

Top. Bot. 430. Syme, E. B. x. 24. 1562.  
Native ; near pools, damp heathlands. Rare. P. July.  
First record, Rev. A. Bloxam, *Phytologist*, 1848.

1. TAME. Near Curdworth Bridge, 1868.
2. BLYTHE. Balsall Street ! *Herb. Per.* Bannersley Rough.
3. ANKER. Baxterley Common, *Blox. Phyt.* iii. 324.
4. AVON. Canal, near Rugby Wharf, *Blox., Rugby Sch. Rep.*, 1868. Cath-iron Lane, near Rugby.
6. SOW. Pit, near Honiley Church ! *Brom., Herb. Brit. Mus.*

Sir J. D. Hooker considers this to be a hybrid between *J. glaucus* and *J. effusus*. *Student's Flora*, Ed. 3. 414.

**J. effusus, Linn.** *Soft Rush.*

Top. Bot. 430. *Purt.* i. 175. Syme, E. B. x. 21. 1561.  
Native ; marshes, bogs, damp heathlands, &c. Common, and generally distributed, P. June-July.  
First record, Baxter, MS., 1835, near Rugby.

**J. conglomeratus, Linn.** *Common Rush.*

Top. Bot. 430. *Purt.* i. 175. Syme, E. B. x. 20. 1560.  
Native ; bogs, marshes, heathlands, &c. Common, and generally distributed.  
P. June-July.  
First record, Baxter, MS., about 1840, near Rugby.

**J. supinus, Moench.** *Juncus uliginosus*, Roth.

Top. Bot. 432. *Purt.* i. 177. Syme, E. B. x. 32. 1570.  
Native; boggy and marshy places. Local. P. June to August.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park, very abundant. Middleton Heath.
2. BLYTHE. Coleshill Pool! *Purt.* i. 177. Bannersley Rough; Marston Green; sand quarry, Cornets End; Forshaw Heath.
3. ANKER. Baddesley Common; stone quarries, Hartshill; Atherstone Outwoods; Shuttington.
6. SOW. Wroxall Common, *Baynes, MS.* Beausale Common, *Y. and B.* Binley Common.
7. STOUR. Near Halford; heathland, Great Wolford.
9. ARROW. Wire Hill, Sambourn; pit, near Sambourn.

**J. obtusiflorus, Ehrh.***Obtuse-flowered Rush.*

Top. Bot. 432. *Purt.* i. 177. Syme, E. B. x. 28. 1566.  
Native; boggy places and near canals. Rather rare. P. July.  
First record, Purton, Midland Flora, 1817.

4. AVON. In some boggy ground, near Bidford Grange, *Purt.* i. 177. Near Binton, *Kirk, Herb. Per.* Oxtail Farm, near Stratford-on-Avon, *Cheshire, Herb. Per.* Woodloes! *Y. and B.* Chesterton Moat! *Brom.* Near Moreton Morrell.
5. LEAM. In abundance, small pool, near Birdingbury; near Itchington Holt.
6. SOW. Canal, near Wyken, *Kirk, Herb. Per.* Near Honiley Pool, *Herb. Per.* Canal side, near Ansty.
8. ALNE. On the side of the canal, near Bearley Aqueduct; in abundance near Crab Mill, Preston Bagot; near Dilke Lane and Lowson Ford.
9. ARROW. In a stream at Broom, *Purt.* i. 177.

**J. lamprocarpus, Ehrh.***Shining-fruited Rush.*

Top. Bot. 431. Syme, E. B. x. 30. 1568.  
Native; marshes and damp sandy places. Local. P. July-August.  
First record, Miss Palmer, 1853.

1. TAME. Sutton Park; Middleton Heath; Kingsbury.
2. BLYTHE. Bannersley Pool; sand quarry, near Stonebridge; sand quarry, Cornets End; Bentley Heath.
3. ANKER. Stone quarries, Hartshill; Hartshill Hayes; Shuttington.
4. AVON. Myton, *Y. and B.* Lighthorne, *Miss Palmer*, 1853. Near Newbold-on-Avon. *Rugby Sch. Rep.*, 1870. Chadshunt, *Bolton King.* Old quarry, near Newbold-on-Avon.
5. LEAM. Canal, near Napton Reservoir.
6. SOW. Binley Common; canal, near Ansty.
7. STOUR. Near Halford, *Newb.* Wimpstone Fields; Whatcote.
8. ALNE. Lapworth; Lye Green; Bearley Common.
9. ARROW. Pit at Sambourn; Alcester Reservoir.
10. CHEREWELL. Near Farnborough, cattle pool.

**J. acutiflorus, Ehrh.***Sharp-flowered Rush.*

Top. Bot. 431. *Purt.* i. 176. Syme, E. B. x. 29. 1567.  
Native; bogs, marshes, near pools, and damp waysides. Common, and generally distributed. P. July-August.  
First record, the Author, 1869.

## LUZULA. DC.

**L. pilosa**, Willd. *L. vernalis*, DC. *Broad-leaved Hairy Rush.*

Top. Bot. 435. *Juncus pilosus*. Purst. i. 178. Syme, E. B. x. 5. 1548.  
Native; woods and shady banks. Locally common. P. April-May.  
First record, the Author, 1870.

1. TAME. Sutton Park; Trickley Coppice; New Park, Middleton; Hoare Park, Nether Whitacre; Kingsbury Wood; Harding's Wood; Fillongley; Arley Wood.
2. BLYTHE. Woods, near Solihull; Clow's Wood, near Earlswood.
3. ANKER. Bentley Park; Hartshill Hayes; Oldbury; Birch Coppice, Polesworth.
4. AVON. Waverley Wood; Stoneleigh; Oakley Wood; Chesterton Wood; woods, near Walton Village; Alveston Pastures.
5. LEAM. Frankton! and Princethorpe Woods! *Rugby Sch. Rep.*, 1876.
6. SOW. Crackley; Tile Hill Woods; Combe Woods.
7. STOUR. Whichford Wood.
8. ALNE. Haywood; Bush Wood, Lapworth; Chalcote Wood, Umberslade; Austey Wood, Wootton Waven; Alderhanger, near Tanworth.
9. ARROW. Banum's Wood, Morton Bagot; Wire Hill, Sambourn; Old Park Wood, Arrow; Oversley Wood.

**L. maxima**, DC. (*L. sylvatica*, Gaud.) *Great Wood-rush.*

Top. Bot. 434. *Juncus maximus*. Purst. i. 178. Syme, E. B. x. 7. 1549.  
Native; woods. Local. P. May-June.  
First record, the Author, 1869.

1. TAME. Arley Wood; Kingsbury Wood.
2. BLYTHE. Boulthie Wood, near Meriden; Meriden Shafts.
3. ANKER. Bentley Park; Hartshill Hayes; woods, near Oldbury; Birch Coppice, Polesworth.
4. AVON. Grove Park, *Brom.*
6. SOW. Combe Woods; Corley Woods.
8. ALNE. Haywood; coppice, near Rowington.
9. ARROW. Oversley Woods; Wire Hill, Sambourn; Coughton Park; Old Park, Ragley.

**L. campestris**, DC. *Field Wood-rush.*

Top. Bot. 435. *Juncus campestris*. Purst. i. 178. Syme, E. B. x. 8. 1551.  
Native; pastures, heaths, roadsides, and banks. Common, and generally distributed. P. April-May.  
First record, Rugby School Report, 1868, near Rugby.

**L. multiflora**, Lej. *L. erecta*, Desv. *Many-headed Field Wood-rush.*

*L. congesta*, Koch. Top. Bot. 435. Purst. i. 179. Syme, E. B. x. 9. 1550.  
Native; peaty bogs, damp heathlands, and waysides. Local and rare. P. June to August.  
First record, Purton, Midland Flora, 1817. *Juncus liniger*.

1. TAME. Sutton Park; Trickley Coppice, and New Park, Middleton; Kingsbury Wood.
2. BLYTHE. Coleshill Bog and Heath; Hill Bickenhill; Forshaw Heath; Earlswood.

3. ANKER. Baxterley Common ; Hartshill Hayes ; Shuttington ; Arbury Woods.
4. AVON. Dunchurch ; Hill Morton and Barby Roads, near Rugby, *Baxter, MS.* In a field going to Hampton-on-the-Hill, *Perry, MS.* Brandon Woods, *Kirk, Phyt.* ii. 971. Oakley Wood.
6. SOW. Combe Woods.
7. STOUR. Heathy land, near Great Wolford.
8. ALNE. Haywood ! *Y. and B.* Yarningale Common ; Alderhanger, near Tanworth.
9. ARROW. On the road from Coughton to Sambourn ! *Purt.* i. 179. Wire Hill, Sambourn ; Coughton Park.

The var. *congesta* has the same range as the type, the two plants usually growing together.

## ORD. LXXVI. TYPHACEÆ.

### TYPHA. Linn.

#### *T. latifolia*, Linn. *Broad-leaved Reed Mace. Bulrush.*

Top. Bot. 429. *Purt.* ii. 438. Syme, E. B. ix. 2. 1385.  
Native ; rivers, canals, and pools. Locally common, occurring in all the districts. P. July.  
First record, Perry, Herb. Perry, 1829 ; Leamington.

Var. *b. media*, Syme. Rare.

4. AVON. Near Chesterton Church, *Brom.*
5. LEAM. Pit, near Birdingbury Railway Station.

#### *T. angustifolia*, Linn. *Narrow-leaved Reed Mace.*

Top. Bot. 429. *Purt.* ii. 438. Syme, E. B. ix. 4. 1386.  
Native ; pools and ponds. Rather rare. P. July.  
First record, Ray, Cat., *Typha palustris media*, J. B., 1670, unlocalised.

1. TAME. Sutton Park ; pond, near Bromford Forge.
3. ANKER. Blackpool, Merivale ; near Burton Hastings ; pit, near Burton Mill ; near Caldecote Leather Mill.
4. AVON. In a pit at Milverton, 1833, *Baynes, MS.* Moat at Chesterton, *Brom.* In an old pit at Coton, *Kirk, Phyt.* ii. 971. In a pond near the bridle road from Dunchurch to Barby, *Rugby Sch. Rep.*, 1876. Pond in the Lime Works beyond Little Lawford, *Rugby Sch. Rep.*, 1889.
5. LEAM. By the side of the River Leam, near Leamington, *Baynes, MS.* reported from Frankton Wood, *Rugby Sch. Rep.*, 1876. Pit, near Birdingbury Railway Station.
6. SOW. Stivichall ; Burn Post, near Kenilworth ! *Kirk, Phyt.* ii. 971. In several pits in Rounsel Lane, Kenilworth, *Brom.* Kenilworth ; Sow Waste.
8. ALNE. In a pit on the Alne Hills, near Shelfield, *Purt.* i. 438.
10. CHERWELL. Pool, near Farnborough ; Wormleighton Reservoir.

**SPARGANIUM.** *Tournef.***S. ramosum,** *Huds.**Branched Bur-reed.*Top. Bot. 429. *Purt.* ii. 439. *Syme, E. B. ix. 5. 1387.*Native; rivers, canals, pools, and ditches. Locally common, and generally distributed. *P. June-July.*

First record, Baxter, MS.

**S. neglectum,** *Beeby.**Journal of Botany, July, 1885.*Native; pools and streams. Rare. *P. June to August.*

First record, the Author, 1885.

3. ANKER. Pool in the road from Wolvey to Ryton.

5. LEAM. Pit, near Birdingbury Railway Station; Duke Wood, Wappenbury.

7. STOUR. Pool, near Barton-on-the-Heath.

8. ALNE. Canal, near Lowson Ford.

10. CHERWELL. Wormleighton Reservoir.

Probably a more careful study of these plants will show that this is more widely distributed than at present appears.

**S. simplex,** *Huds.**Bur-reed.*Top. Bot. 429. *Purt.* ii. 439. *Syme, E. B. ix. 6. 1388.*Native; canals, pools, and ditches. Local. *P. June to August.*

First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park.

2. BLYTHE. Pool, Rednall Lane, near Balsall Mill; Forshaw Park.

3. ANKER. Canal feeder, near Caldecote.

4. AVON. Rugby. *Baxter, MS.* By the side of the footpath from Milverton to Lillington, *Baynes, MS.* Canal, near Emscote, *Perry, MS.* Tachbrook, *Brom.* Kineton, *Bolton King.* Small pond, near the Blue Boar Lane, Rugby, *Cunning, Rugby Sch. Rep., 1878.* Avon, near Browns-over Mill and Steeplechase Brook, *Rugby Sch. Rep., 1889.* Salford Priors, *Caswell.* Canal, near Stratford-on-Avon; near Harborough Magna.5. LEAM. Near Frankton Wood, *Rugby Sch. Rep., 1876.* Dayman's Pool, near Offchurch; Snowford Bridge; canal, near Radford Semele; Leam, near Leamington.6. SOW. Rounsel Lane, Kenilworth, in several pits, *Brom.* Sow Waste Canal.7. STOUR. Honington Park, *Newb.* Pool, near Shipston-on-Stour, road to Brailes.8. ALNE. Near the Lodge Farm, Snitterfield, *Purt.* ii. 439. Canal, near Bearley.9. ARROW. Washford, near the bridge, *Purt.* ii. 439.

10. CHERWELL. Farnborough.

**S. minimum,** *Fr.**Small Floating Bur-reed.*Top. Bot. 428. *Syme, E. B. ix. 8. 1390.*Native; pools. Very rare. *P. July.*First record, Countess of Aylesford, *Botanist's Guide, 1805.* *S. natans.*2. BLYTHE. Packington, *Aylesford, Bot. Guide, 636.*3. ANKER. In a pit on Ansley Coalfields, *Blox., Phyt. iii. 324.* Arbury, *Kirk, Herb. Per.*

4. AVON. Road from Coton House to Cave's Inn, *Cheshire, Herb. Per.*  
 6. SOW. In a pool near Rounsel Lane, Kenilworth, *Kirk*.

## ORD. LXXVII. AROIDEÆ.

ARUM. *Linn.*

**A. maculatum**, *Linn.* *Cuckoo-pint. Wake Robin. Lords and Ladies.*

Top. Bot. 427. *Purt.* ii. 431. *Syme, E.B.* ix. 13. 1392.

Native; hedge banks, woods, &c. Locally common. *P.* April-May.

First record, Rugby School Report, 1868, near Rugby.

1. TAME. Middleton; Water Orton; Arley, &c.
2. BLYTHE. Sheldon; Solihull; Marston Green, &c.
3. ANKER. Frequent, Hartshill; Shuttington, Wolvey, &c.
4. AVON. Lighthorne, *Miss Palmer*. Oakley; Chesterton; Alveston, &c.
5. LEAM. Princethorpe; Offchurch, &c.
6. SOW. Combe Fields; Kenilworth.
7. STOUR. Honington! *Newb.* Atherstone-on-Stour; Brailes; Great Wolford, &c.
8. ALNE. Henley-in-Arden; Preston Bagot, &c.
9. ARROW. Morton Bagot; Coughton; Spennall, &c.
10. CHERWELL. Farnborough; Warmington.

ACORUS. *Linn.*

\* **A. Calamus**, *Linn.*

*Sweet Flag.*

Top. Bot. 428. *Syme, E. B.* ix. 11. 1391.

Denizen; rivers and large pools. Rare. *P.* May-June.

First record, Withering's Arrangement, 1787.

2. BLYTHE. Between Knowle and Temple Balsall! *Brom.* Abundant there in 1883, but no flowers.
3. ANKER. Tamworth, at the bottom of Mr. Oldinshaw's garden, *With. Ed.* 2, 358. Plentiful in the Anker river, near Tamworth! 1823, *Baynes, MS.* Abundant in most of the waters near Arbury Hall! *Kirk, Phyt.* ii. 971. In the Anker, near Bole Hall, possibly Withering's station.
4. AVON. Milverton; Guy's Cliff; in the Avon, at Myton, *Brom.*
5. LEAM. Near Itchington Holt.
6. SOW. In two ponds at Foleshill, but originally plants from a pond near Stoke Race Course, which is now filled up, *Kirk, Phyt.* ii. 971.
10. CHERWELL. Abundant in large pools at Farnborough. Probably planted.

## ORD. LXXVIII. LEMNACEÆ.

LEMNA. *Linn.*

**L. trisuleca**, *Linn.*

*Ivy-leaved Duckweed.*

Top. Bot. 426. *Syme, E. B.* ix. 17. 1394.

Native; ditches, canals, and pools. Locally abundant. *A.* July.

First record, Baynes, MS., 1835.

1. TAME. Sutton Park ; Hill Hook ; Birchley Heath.
2. BLYTHE. Green Lanes, near Coleshill ; Bannersley Pool ; near High Ash, Kenwalsey ; pool by Water's Wood, Maxstoke ; pond near Barber's Coppice, Hampton-in-Arden ; pond near Balsall Mill ; Earlswood ; Shirley ; near Berkswell.
3. ANKER. Near Arbury Hall, *Kirk, Phyt.* ii. 971. River Anker, at Rye Hills, and near Tamworth ; Ansley ; Shuttington ; Burton Hastings ; Attlebury Fields.
4. AVON. Rugby, *Baxter, MS.* Woodloes, *Brom.* Canal, near Rugby ; canal, near Newbold-on-Avon ; pool near Great Western Railway, Warwick ; Fullbrook, near Warwick.
5. LEAM. In a pit between Offchurch and Radford Semele ! *Baynes, MS.* Birdingbury Wharf ; Willoughby ; Flecknoe ; Birdingbury Station ; Radford Semele.
6. SOW. In a deep pool at Stivichall ! stagnant water on Stoke Heath, *Kirk, Phyt.* ii. 971. Binley Common ; Sow Waste Canal ; Rounsel Lane, Kenilworth ; pool, near Tile Hill Wood.
7. STOUR. Honington, *Newb.*
8. ALNE. Pool, Bearley Bushes ; pool, Wawen's Moor.
9. ARROW. Pit near Sambourn.
10. CHERWELL. Pool near Wormleighton.

**L. minor, Linn.***Least Duckweed.*

Top. Bot. 425. Purst. ii. 437. Syme, E. B. ix. 21. 1395.

Native ; pools, canals, &amp;c. Common, and generally distributed. A. June-July.

First record, in flower, the Author, 1868, Coleshill.

**L. gibba, Linn.***Gibbous Duckweed.*

Top. Bot. 425. Purst. iii. 567. Syme, E. B. ix. 22. 1396.

Native ; pools and ditches. Very local. Rare in flower. A. July.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Sutton Park, in flower, 1878 ; ditch, near Minworth.
2. BLYTHE. Hampton-in-Arden, *Rogers.* Pool, near Berkswell, *Kirk, Phyt.* ii. 971. Pool, road from Coleshill to Bannersley Pool, in flower, 1870 ; small pond, footroad from Coleshill Church to Maxstoke Park ; Duke's Bridge, Maxstoke ; Catherine-de-Barnes Heath ; cattle pool, Bradnock's Marsh.
3. ANKER. Streams, Rye Hill, near Tamworth ; near Grendon.
4. AVON. Pond, near Lawford Mill, *Baxter, MS.* Mill pond, near St. Nicholas' Church, and in a brook in Baly's Lamas, Warwick, *Per. Fl.* 3. In a ditch opposite to Coventry Row, Warwick, *Perry, MS.* Three ponds, near Lawford and Newnham, *Blox., N. B. G. S.*, 1837. River Avon, Myton, *Brom.* Lighthorne, *Miss Palmer.*
5. LEAM. Pond, near Long Itchington ; Ufton.
6. SOW. Ditches and ponds, near Foleshill, *Kirk, Phyt.* ii. 971. Rounsel Lane, Kenilworth ! *Brom.* Sow Waste Canal, in flower, 1883.
8. ALNE. Mousell End, near Berkswell ; pool, at Wootton Wawen ; pool, near Packwood House.
9. ARROW. Apparently rare. Spennall Ash, abundantly in flower, 1878.

**L. polyrrhiza, Linn.***Greater Duckweed.*

Top. Bot. 426. Syme, E. B. ix. 23. 1397.

Native ; ditches and pools. Rare. Not observed in flower. A. July.

First record, Kirk, *Phytologist*, 1842.

1. TAME. Pool in lane near Ham's Hall. *Grove*.
2. BLYTHE. Pool at Berkswell, *Kirk, Phyt.* ii. 971. Roadside pond, near Bacon's End, Coleshill; pool near High Ash Farm; pool near Eastcote's Green; small pool, in Drugget's Lane, Berkswell; Solihull, near the Railway Station.
3. ANKER. Rye Hills, near Tamworth; pool near Grendon; pool near Hartshill, on the Mancetter Road; heathland near Burton Hastings.
4. AVON. River Avon, near Myton; Pillerton, *Brom.* Lighthorne, *Miss Palmer*. Burton Dassett, *Bolton King*. Pond in field from Marl Cliff to Bidford; Morton Hill, near Wellesbourne; Woodloes, Warwick.
5. LEAM. Near Flecknoe.
6. SOW. Near Radford (Coventry); ponds near Stoke Heath, *Kirk, Phyt.* i. 971. Pond in Rounsel Lane, Kenilworth, *Brom.* Cattle pool near Combe Pastures; abundantly, near Carroll's Green and Hearsall Common.

Both *L. polyrrhiza* and *L. gibba* are uncertain in their occurrence, and will often be missing for one or more seasons in any of the above localities.

## ORD. LXXIX. ALISMACEÆ.

### ALISMA. Linn.

#### A. Plantago, Linn.

*Greater Water Plantain.*

Top. Bot. 409. Pursh i. 188. Syme, E. B. ix. 70. 1437.

Native; rivers, pools, canals, and ditches. Common, and generally distributed.

P. July to September.

First record, Rugby School Report, 1868.

Var. *b. lanceolatum* (With.) Rare. Syme, E. B. ix. 70. 1438.

2. BLYTHE. Near Solihull Wharf; canal, near Catherine-de-Barnes Heath; 1883, canal, Shirley Heath.
3. ANKER. Griff Hollows; canal, Burton Moors.
4. AVON. Canal, Myton! *Brom.* New Canal, near Rugby, *Rugby Sch. Rep.*, 1889. Small pool in brickyard, Gaydon: damp drive in Alveston Pastures, in company with *Rev. W. W. Newbould*.
5. LEAM. River Leam, at Birdingbury, *Brom.* Canal, near Napton Reservoir, *Rugby Sch. Rep.*, 1886. Canal, Long Itchington; Stockton Reservoir.
6. SOW. By a pool near Tile Hill Wood; Sow Waste, near canal.
7. STOUR. Honington, by the bridge on the way to Idlicote, *Newb.* Wimpstone Fields.
8. ALNE. Canal, near Preston Bagot; canal, near Wilmcote.

#### A. ranunculoides, Linn.

*Lesser Water Plantain.*

Top. Bot. 409. Syme, E. B. ix. 71. 1439.

Native; marshy pools. Very rare. P. July.

First record, Perry, Herb Perry, 1831.

3. ANKER. Tamworth, *Herb. Per.*

7. STOUR. Wimpstone Fields, *Cheshire, Herb. Per.*

I was unable to find this plant on Wimpstone Fields in 1886, but many of the marshy places and small pools were dried up by the long drought which had been prevalent. The only plant that could be mistaken for it in this locality at that time was *A. Plantago*, var. *lanceolatum*.

**SAGITTARIA.** *Linn.***S. sagittifolia,** *Linn.**Arrowhead.*

Top. Bot. 411. *Purt.* ii. 467. *Syme, E. B.* ix. 68. 1436.

Native; rivers, pools, canals. Local. *P.* July-August.

First record, *Perry, List*, 1817.

1. **TAME.** Canal, Birmingham Heath, plentiful, *Per. Fl.* 78. Pools, near Castle Bromwich Railway Station; canal, near Curdworth.
2. **BLYTHER.** Warwick Canal, near Olton; Solihull and Knowle; canal, Shirley Heath; near the Locks, Temple Balsall; canal, near Yardley Wood.
3. **ANKER.** Canal, near Polesworth and Atherstone; River Anker, near Bole Hall, Shuttington and Mancetter; canal, Hartshill and Griff Hollows.
4. **AVON.** On the banks of the Avon at Stratford, and in ditches about Bidford, *Purt.* ii. 468. Avon, Nicholas Meadow, Warwick, *Perry, List*, 1817. About Rugby, on the banks of the Avon! and in ponds and watery places near it, *Baxter, Brit. Ph.* Canal, near Rugby! *Blox., New Bot. Guide Sup.*, 1837. Chadshunt (introduced), *Bolton King.* Chesterton Mill Pool! *Brom.* Near Brownsover and Newbold, *Rugby Sch. Rep.*, 1876. Stoneleigh Abbey. *Grove.*
5. **LEAM.** River Leam, Leamington, *Smith in Per. Fl.* 78. Radford Semele! 1831, *Baynes, MS.* Willoughby; canal, near Long Itchington; canal, near Birdingbury.
6. **SOW.** In the canal, Longford! *Per. Fl.* 78. Stoke Heath! *Kirk, Herb. Brit. Mus.* In the River Sow, near Binley; in the canal, Sow Waste, and Ansty.
7. **STOUR.** In the Stour, below Tredington, *Newb.*
8. **ALNE.** Stratford Canal, near Rowington; Warwick Canal, near Rowington; canal, near Wilmcote.

**BUTOMUS.** *Tournef.***B. umbellatus,** *Linn.**Flowering Rush.*

Top. Bot. 411. *Purt.* i. 205. *Syme, E. B.* ix. 76. 1443.

Native; rivers, ponds, pools, and canals. Locally abundant. *P.* June to August.

First record, *Withering's Arrangement*, 1787, Tamworth.

1. **TAME.** Brook, near Avern's Mill, Edgbaston Lane. *Ick, Remarkable Plants*, 1838. Canal, near Aston Waterworks, 1836, *B. F. Westcott.*
2. **BLYTHER.** Blythe Heath, near Solihull, 1836, *Gorle.* Blythe! and Cole! Warwickshire, *Bree in Purt.* iii. 357. Packington, *Miss Palmer.* Pit near Stechford; Warwick Canal, near Solihull and Knowle; Tythall Lane, Solihull; cattle pond, Balsall Street; canal, Shirley Heath; canal, near Yardley Wood.
3. **ANKER.** Tamworth! *With. Ed.* 2. 420. In the River Anker, near Tamworth and Shuttington; canal, Atherstone; Burton Moors.
4. **AVON.** Common in Avon and Swift, *Baxter, MS.* Priory Pools and in the River Avon, at Warwick! dam at Cattell's Mill, Emscote, *Per. Fl.* 38. Chesterton Mill Pool, *Perry, MS.* Common about the Avon and Swift, at Rugby, especially near the bridge, and near the aqueduct going from Rugby to Newbold and Brownsover, *Baxter, Brit. Ph.* Canal, near Stratford-on-Avon.
5. **LEAM.** Canal, Leamington! *Per. Fl.* 38. Radford Semele! *Baynes, MS.*, 1831. Stream, by Long Itchington, *Bolton King.* Willoughby, near Rugby; Birdingbury Canal; canal, near Napton and Long Itchington; Snowford Bridge.

6. SOW. Canal, Longford, *Per. Fl.* 38. In the old canal, Brinklow, *Perry, MS.*, 1835. Canal, Sow Waste and Ansty.
  7. STOUR. Near Halford, *Newb.*
  8. ALNE. Great Alne Mill, *Purt.* i. 205. Near Hatton Railway Station; canal and pool, near Yarningale and Holywell; canal, near Bearley and Wilmcote; Lowson Ford.
  9. ARROW. Oversley Bridge, *Purt.* i. 205.
  10. CHERWELL. Pool, bridle road from Farnborough to Warmington.
- "It truly adorns with its beautiful flowers the Rivers Arrow, Avon, and Alne in many places." *Purt.* iii. 357, note.

## ORD. LXXX. NAIADACEÆ.

TRIGLOCHIN. *Linn.***T. palustre**, *Linn.**Marsh Arrowgrass.*Top. Bot. 412. *Purt.* i. 188. Syme, E. B. ix. 65. 1433.

Native; marshes, damp meadows, and near pools. Local. P. July-August. First record, Withering's Arrangement, 1787.

1. TAME. Sutton, *Freeman, Phyt.* i. 292. Hill Hook; Sutton Park; wet meadows, Maney.
2. BLYTHE. Bogs, Coleshill! *Bree, Mag. Nat. Hist.* iii. 164. Packington; Olton Pool.
3. ANKER. Near Tamworth, *With. Ed.* 2. 378.
4. AVON. Canal side, at Emscote, between the lime kilns and the aqueduct, 1822, *Perry, MS.* Myton, *Y. and B.* At intervals along edge of canal, between Hill Morton and Barby Road, *Rugby Sch. Rep.*, 1876.
5. LEAM. Canal bank, Napton, *Bolton King.* Near Willoughby.
6. SOW. The Oaks Farm, Kenilworth, *Brom.* Haseley, *Y. and B.* Canal, Sow Waste; Wyken Mill, Wyken.
7. STOUR. Honington, *Newb.* Pit near Great Wolford.
8. ALNE. Above the village of Great Alne, *Purt.* i. 188. Canal side, Holywell; near Claverdon.
9. ARROW. At Mr. Bloxam's field (Alcester), at the edge of the water, *Purt.* i. 188.

POTAMOGETON. *Linn.***P. natans**, *Linn.**Floating Pondweed.*(Aggregate. *Purt.* i. 104.) Syme, E. B. ix. 26. 1399.

Native: rivers, streams, pools, canals, &amp;c. Locally common. P. July to September.

First record, as a segregate, the Author, 1866.

1. TAME. Sutton Park; canal, near Curdworth and Kingsbury.
2. BLYTHE. Canal, near Solihull and Knowle; canal, Shirley Heath.
3. ANKER. Canal, Atherstone; Burton Hastings; Hartshill.
4. AVON. Lighthorne, *Miss Palmer.* Canal, near Warwick; Rugby; Stratford-on-Avon, &c.
5. LEAM. Canal, near Birdingbury Wharf; Southam, &c.
6. SOW. Canal, Sow Waste; Combe Fields.

7. STOUR. Honington; common about Shipston-on-Stour! *Newb.* Whatcote.
8. ALNE. Canal, Wilmcote; canal, near Preston Bagot; Lowson Ford.
9. ARROW. Pit at Sambourn.
10. CHERWELL. Small pool near Farnborough; canal, near Wormleighton Reservoir.

**P. polygonifolius**, *Pourret.* *P. oblongus*, *Viv.* *Oblong-leaved Pondweed.*

Top. Bot. 421. Syme, E. B. ix. 27. 1400.

Native; ponds and ditches on heathlands. Locally abundant. P. June to August.

First record, Withering's Arrangement, 1787. *P. paludosum*, *With.*

1. TAME. Boggy ground on Birmingham Heath, *With. Ed.* 2. 172. Sutton Park, in places where stagnant water has been dried up or drained off, *Stokes in With.* 172. Sutton Park, abundant; pit by New Park, Middleton; pond near Springfield House, Ansley.
2. BLYTHE. Bannersley Pool and Heath; Coleshill Pool; Hill Bickenhill; Marston Green; Honiley; ponds near Earlswood; Forshaw Heath.
3. ANKER. Annesley Coalfield Heath! *Blox., Phyt.* iii. 324. Arbury Park! *Kirk, Herb. Per.* Hartshill Quarries; canal feeder, near Mancetter.
4. AVON. Pool near Oakley Wood; pit, Cathiron Lane, near Rugby.
5. LEAM. Small pool, footway from Birdingbury to Frankton.
6. SOW. Foleshill, *Kirk, Herb. Per.* Pond in Banner's Lane, Tile Hill.
7. STOUR. Pit on Great Wolford Heath.
8. ALNE. Small pond near Drayton Bushes; near Lowson Ford.
9. ARROW. Pit near Middletown.

I have not sufficiently studied the varieties of this plant to give a full account of their distribution. I believe, however, that in nearly every instance the plants I record are the var. *P. ericetorum*, *Syme.*

**P. rufescens**, *Schrad.*

Top. Bot. 420. Syme, E. B. ix. 30. 1402.

Native; pools and ponds. Rather rare. P. July-August.

First record, Kirk, Phytologist, 1842.

2. BLYTHE. Olton Pool, abundant 1881, in company with *Mr. James Groves.*
3. ANKER. Annesley (Ansley) Coalfield Heath, *Blox., Phyt.* iii. 324. Stagnant water, Arbury Deer Park, *Kirk, Phyt.* i. 971.
4. AVON. Alveston Heath, *Cheshire, Herb. Per.* Near Rugby, *Trott, Rugby Sch. Rep.*, 1875.
6. SOW. Whitmore Park (near Coventry), *Kirk, Herb. Brit. Mus.* Cattle pond, Rounsel Lane, Kenilworth! *Brom.* Pond near Coventry, on the Allesley side; pond in Banner's Lane, Tile Hill.

**P. lucens**, *Linn.*

*Great Pondweed.*

Top. Bot. 417. *Purt.* i. 105. Syme, E. B. ix. 38. 1408.

Native; rivers, pools, and canals. Locally common. P. June to August.

First record, Withering's Arrangement, 1787.

2. BLYTHE. Canal, near Knowle; Earlswood Reservoir.
3. ANKER. River at Tamworth, *With. Ed.* 2. 173. Oldbury Reservoir; River Anker, Bole Hall; Shuttington; canal, near Atherstone; Seas Pool, Arbury.

4. AVON. River Avon and ponds about Bidford ! *Purt.* i. 105. In a pond near the Woodloes, Warwick, *Perry, MS.* Canals, near Little Lawford ! and near Harborough ! *Rugby Sch. Rep.*, 1876. Myton ; Chesterton ! *Y. and B. River at Bretford, Rugby Sch. Rep.*, 1889. Canal, near Warwick ; canal, near Newbold-on-Avon.
6. SOW. In an old canal, Arbury Deer Park : this drains into the Sow ; in the Oxford Canal, Stoke Heath ; old canal, Sow Waste, in abundant flower and fruit.
7. STOUR. Stour, at Halford Bridge ; Stour, near Newbold ; Upton Bridge.
10. CHERWELL. Canal, near Wormleighton Reservoir.

**P. decipiens, Nolle.**

Syme. E. B. ix. 38. 1409.

Native ; canals. Very rare. P. July-August.

First record, Dr. Baker, Botanical Exch. Club Rep., 1882.

4. AVON. Canal, Warwick, September, 1882, *R. L. Baker.*

"Dr. Baker's plant approaches my var. *affinis* very closely, the only difference being that the spikes are longer than in Mr. Brotherstone's Tweed plant."—*A. Bennett, Bot. Ex. Club Rep.*, 1882, p. 78.

This plant was first discriminated by Mr. Henry Bromwich about 1870, who afterwards pointed it out to Dr. Baker.

**P. perfoliatus, Linn.**

*Perfoliate Pondweed.*

Top. Bot. 417. *Purt.* i. 104. Syme, E. B. ix. 42. 1412.

Native ; rivers, streams, pools, and canals. Locally common. P. June to August.

First record, the Author, 1867, near Coleshill.

1. TAME. Canal, near Curdworth.
2. BLYTHE. River Cole, near Coleshill, 1867 ; Coleshill Pool ; River Blythe, near Barston ; Olton Reservoir ; canal, near Solihull.
3. ANKER. Canal, near Burton Hastings ; canal, Griff Hollows ; River Anker, Bole Hall ; Shuttington, &c.
4. AVON. Avon, near Bidford ; old canals, near Newbold-on-Avon ; Warwick Canal, near Warwick.
5. LEAM. Canal, near Birdingbury ; canal, Radford Semele.
6. SOW. Canal, Stoke Heath and Sow Waste ; pool in Combe Abbey Grounds.
7. STOUR. River Stour, at Burmington.
8. ALNE. Canal, near Rowington ; canal, Bearley.
9. ARROW. River Arrow, at Spennall ; River Arrow, at Broom.
10. CHERWELL. Canal, near Wormleighton Reservoir.

**P. crispus, Linn.**

*Curled Pondweed.*

Top. Bot. 416. *Purt.* i. 105. Syme, E. B. ix. 43. 1413.

Native ; streams, canals, and pools. Rather local. P. July-August.

First record, Kirk, Herb. Brit. Museum, 1855.

1. TAME. Streams, Sutton Park.
2. BLYTHE. Ryton End, *Grove*. Spring Pools, near Kenwalsey ; stream, near Blythe Bridge, Solihull ; stream, near Earlswood Reservoir.
3. ANKER. Streams, Rye Hills, Tamworth ; Ryton, near Bulkington, completely filling up an old cattle pool.

4. AVON. Chesterton Pool, *Brom.* Old canal between Newbold and Little Harborough! *Rugby Sch. Rep.*, 1876. Radway, Edge Hill; canal near Stratford-on-Avon; stream by Worsley Bridge, Stoneleigh.
5. LEAM. Stream, near Birdingbury; pit at Thorpe Bridge, near Southam; Napton Holt.
6. SOW. Barnes Green, near Coventry, *Kirk, Herb. Brit. Mus.* Pool in Combe Abbey Grounds; Corley Moor.
7. STOUR. Barcheston. *Newb.* Stream at Long Compton.
8. ALNE. Stream at Kingswood; pool at Wootton Wawen; stream, near Brook House Farm, Bushwood.
9. ARROW. Ipsley; pit at Sambourn.
10. CHERWELL. Cattle pool, footway to Farnborough from Wormleighton Reservoir; Priors Marston.

Var. *b. serratus* (Huds.)

3. ANKER. Stream by the Anker, at Rye Hills, Tamworth.
7. STOUR. Pool, near Atherstone-on-Stour.
9. ARROW. Pit at Sambourn.

This does not appear to be more than a young state of *P. crispus*.

**P. densus**, Linn. *Opposite-leaved Pondweed.*

Top. Bot. 412. *Purt.* i. 105. Syme, E. B. ix. 44. 1414.  
Native; ponds and streams. Rare. P. July-August.  
First record, Purton, Midland Flora, 1817.

3. ANKER. In streams by the Anker, Rye Hills, near Tamworth.
4. AVON. In ponds and ditches on each side the road between Stratford-on-Avon and Red Hill! *Purt.* i. 106. This record includes localities belonging to both Avon and Alne basins. Moreton Morrell, *Brom.* Chadshunt, *Bolton King*. A small-leaved form abundant in a pond on Bardon Hill; abundant in a small pool near Drayton; near Stratford-on-Avon; pond near Ashorne.
5. LEAM. Abundant in a cattle pond two miles from Southam on the way for Napton-on-the-Hill.
7. STOUR. Blackwell, *Newb.* This district is in Worcestershire, just over the Warwickshire border.
8. ALNE. Small pool, Green Lanes, Wilmcote; narrow-leaved form, canal, near Wilmcote; small pool by Drayton Bushes, in abundant flower; near Aston Cantlow.

**P. zosteræfolius**, Schum. *P. compressus*, Linn. *Grass-wrack-leaved Pondweed.*

Top. Bot. 416. Syme, E. B. ix. 45. 1415.  
Native; canals. Local and rare. P. July-August.  
First record, Rev. A. Bloxam, *New Botanist's Guide Sup.*, 1837.

2. BLYTHE. Rare. Stratford Canal, near Hockley.
3. ANKER. Rare. Canal, near Atherstone, 1881; canal, near Burton Hastings, in several places, not in flower.
4. AVON. Abundant in the Oxford Canal, near Newbold-on-Avon! *Blox., New Bot. Guide Sup.*, 1837. Canal, near Rugby, *Blox., Herb. Brit. Mus.* Warwick Canal, near Warwick! *Brom.* Hatton; Stratford-on-Avon.
5. LEAM. Canal, near Napton-on-the-Hill.

6. SOW. Canal, Stoke Heath ! *Kirk*, 1849, *Herb. Brit. Mus.* Abundant, Sow Waste Canal.
8. ALNE. Canal, near Rowington; Holywell; Bearley; and Wilmcote, in abundant flower.
9. ARROW. Canal, near Tardebigge. This district was formerly included in Warwickshire, now part of Worcestershire.

**P. acutifolius, Link.**

Syme, E. B. ix. 46. 1416.

Native; canals. Very rare. P. July-August.

First and only record, Bloxam, *Herb. Brit. Museum*, 1859.

4. AVON. Canal, near Rugby, *Blox.*

The following note from Mr. A. Bennett, of Croydon, brought this plant under my notice. He writes as follows:—

“Looking through the British Potamogetons at British Herbarium of British Museum, I saw a specimen labelled as under—

‘*P. zosteræfolius*.

Canal, near Rugby, Warwickshire.

In herb. Rev. And. Bloxam.

Sowerby's herbm. received 1859.

*P. acutifolius* E. B. 2609.’

It is *P. acutifolius*, *Link* ! for certain, and I suppose new to the county.

“A. BENNETT.”

This is a very interesting addition to our flora, which I have not yet been able to confirm, although I have given some little attention to the canals near Rugby.

**P. obtusifolius, Mert. and Koch. *P. gramineus*, Sm.**

Top. Bot. 415. Syme, E. B. ix. 48. 1417.

Native; canals and pools. Very rare. P. July-August.

First localised record, Bromwich, *Herbarium Brit. Museum*, 1870.

4. AVON. Canal, near Stratford-on-Avon; canal, near Newbold-on-Avon.

6. SOW. Two pits at Kenilworth, *Brom.*, *Herb. Brit. Mus.* Pool, Banner's Lane, Tile Hill, in fruit; Stoke Heath and Sow Waste Canals.

**P. Friesli, Rupr. *P. mucronatus*, Schrad. *P. compressus*, Sm.**

Top. Bot. 414. Syme, E. B. ix. 49. 1418.

Native; canals. Very rare. P. July-August.

First record, *Kirk*, Spec. to Topographical Botany, about 1855.

1. TAME. Windley Pool, 1888, Bracebridge Pool, 1889, Sutton Park.

4. AVON. Canal, near Warwick, *Brom.* My specimen from this station so labelled is *P. zosteræfolius*. Canals, near Newbold-on-Avon; canal, near Stratford-on-Avon.

5. LEAM. Canal, Napton-on-the-Hill,

6. SOW. Canal, Sow Waste, abundant.

8. ALNE. Canal, Wilmcote and Bearley.

10. CHERWELL. Abundant in canal, near Wormleighton Reservoir.

**P. pusillus, Linn. *Small Pondweed*.**

Top. Bot. 414. Syme, E. B. ix. 49. 1419.

Native; canals and pools. Very rare. P. July-August.

First record, *Withering's Arrangement*, 1787.

2. BLYTHE. Mercote Mill Pool,\* near Hampton-in-Arden.
3. ANKER. About Tamworth, Warwickshire, *With. Ed.* 2, 176. Oldbury Reservoir.\*
4. AVON. Canal, Warwick\* and Emscote, *Brom.* In the old canal, near Brownsover, *Rugby Sch. Rep.*, 1878. Abundant in the canal, near Bishopton; Stratford-on-Avon; canal, near Rugby Wharf and Newbold-on-Avon, 1884.
8. ALNE. Canal, near Wilmcote.\*

A narrow-leaved form closely approaching the var. *tenuissimus*, Koch, occurs in the localities marked with an asterisk thus \*.

It is doubtful whether Withering's plant was the true *P. pusillus*.

### **P. pectinatus, Linn.**

*Fennel-leaved Pondweed.*

Top. Bot. 413. Purt. iii. 340. Syme, E. B. ix. 53. 1422.

Native; canals and pools. Frequent, rare in flower. P. July-August.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Bracebridge Pool, Sutton Park, 1880; and Blackroot Pool, 1888; Tamworth Canal, from Tyburn to Tamworth.
2. BLYTHE. Warwick Canal, from Olton to Warwick, at frequent intervals; the Stratford Canal, from Shirley Heath.
3. ANKER. Canal, from Atherstone to Hartshill; Ashby-de-la-Zouch Canal, from junction to the Leicestershire border at intervals; River Anker, near Shuttington.
4. AVON. Near the canal bridge, Saltisford! Warwick, *Per. Fl.* 14. Old and new canals, near Newbold-on-Avon! *Rugby Sch. Rep.*, 1876; Canals, near Hatton and Stratford-on-Avon.
5. LEAM. In the canal, Leamington, 1831, *Baynes, MS.* Canal, near Birdingbury; Radford Semele, &c.
6. SOW. Canal, Stoke Heath. Sow Waste, and Ansty; abundant in the large pool, Combe Abbey Grounds.
8. ALNE. Canal, near Rowington, Holywell. Bearley, and Wilmcote.
10. CHERWELL. Canal, near Wormleighton Reservoir.

A peculiar form approaching the var. *scoparius* (Wallr.) is found in the Warwick Canal by Mr. Bromwich, and in the Stratford Canal, near Bishopton, by myself. I think it is an intermediate form.

### **P. flabellatus, Bab.**

Top. Bot. 413. Syme, E. B. ix. 53. 1421.

Native; canals. Rather local; rare in flower. P. July-August.

First record, Kirk, *Herb.* Perry, 1849.

2. BLYTHE. Stratford Canal, near Hockley and Shirley Heath; Warwick Canal, near Solihull.
3. ANKER. Canal, near Atherstone; canal, near Burton Hastings.
4. AVON. Canal, near Warwick and Hatton, *Kirk, Herb. Per.* Canal, near Bishopton and Stratford-on-Avon; Binton Bridges.
5. LEAM. River Leam, at Radford Semele, *Brom.* Canal, Birdingbury; Birdingbury Wharf and Radford Semele.
6. SOW. Canal, Sow Waste and Stoke Heath.
7. STOUR. River Stour, at Halford! *Newb.* Very abundant in 1886.
8. ALNE. Canal, near Bearley and Holywell, in flower; near Lowson Ford.
9. ARROW. Abundant in the Arrow at Washford, Spennall, and Broom.

The canal plant is far more rigid than the river plant.

## ZANNICHELLIA. Linn.

*Z. palustris*, Linn. *Z. brachystemon*, J. Gay. *Horned Pondweed*.

Top. Bot. 423. *Purt.* ii. 434. Syme, E. B. ix. 56. 1425.

Native; rivers, ditches, pools, and canals. Local. P. June to August.

First record, Purton, Midland Flora, 1817.

1. TAME. Water Orton, in drains in the lane leading to Minworth; Hill Hook, near Sutton Coldfield.
2. BLYTHE. River Cole, near Chelmsley Wood; drains on Coleshill Heath; Marston Green; Spring Pools, Kenwalsey; River Blythe, near Stonebridge; near Honiley.
3. ANKER. River Anker, near Tamworth, and Anker Bridge, near Wolvey; streams near Bramcote and Weddington Wood.
4. AVON. Stream near Guy's Cliff, *Baynes, MS.* Pond, near Hill Morton, *Baxter*, 1831. Brook at the Woodloes, *Brom., Ex. Club Rep.*, 1875, p. 29. Compton Verney, *Brom.* Old canal, near Newbold-on-Avon, 1881; stream, Worsley Bridge, Stoneleigh; canal, near Stratford-on-Avon; pool, Alveston Heath.
5. LEAM. Near Itchington Holt, *Brom.* Ufton, *Bolton King*. Footway from Birdingbury to Draycote, in stream; small pool, near Willoughby.
6. SOW. Haseley Wood; Fern Hill Wood, *Brom.*
7. STOUR. Honington, *Newb.* Pit, Wolford Heath.
8. ALNE. Kinwarton, *Purt.* ii. 434. Canal, near Kingswood; pool, Wootton Wawen; lane, Aston Cantlow to Billesley.
9. ARROW. Oversley, *Purt.* ii. 434. Ipsley, *Slatter*. Stream, at Spennall; River Arrow, Broom; pool at Weethley.
10. CHERWELL. Pit near Wormleighton; Priors Marston.

The plant collected by Mr. Bromwich at the Woodloes is stated by Dr. Boswell to be intermediate between *Z. eu-palustris* and *pedicillata*. It has the group of carpels pedunculate, and each carpel slightly stipitate. See Exch. Club Report, 1875, pp. 28-29. This form I find also at Water Orton and in several other localities with the type. The var. *Z. brachystemon*, Gay, appears to be a frequent plant in this county, but probably in the greater number of stations above enumerated the true *Z. palustris*, Boreau, will be found. I have not sufficiently discriminated these in the field to allow a fuller record of the distribution of the forms.

## ORD. LXXXI. CYPERACEÆ.

## HELEOCHARIS. Br.

*H. acicularis*, Sm.

*Slender Club-rush.*

Top. Bot. 442. Syme, E. B. x. 50. 1585. *Scirpus acicularis*, L.

Native; turfy bogs, by pools and canals. Rather rare. P. July-August.

First record, Freeman, Phytologist, 1841.

1. TAME. Sutton, *Freeman, Phyt.* i. 262.
2. BLYTHE. Coleshill Pool; canal side, Catherine-de-Barnes Heath; Olton Reservoir; Earlswood Reservoir.
3. ANKER. In waters near Arbury Hall, *Kirk, Phyt.* ii. 971. Oldbury Reservoir.
4. AVON. Canal side, abundantly, near Stratford-on-Avon.
5. LEAM. Canal side, near Bascote Lodge, on the way for Radford Semele.
6. SOW. Stoke Heath, *Kirk, Phyt.* ii. 971.
8. ALNE. Canal Reservoir, near Kingswood.

T

**H. palustris, Br.***Marsh Club-rush.*

Top. Bot. 442, *Scirpus palustris*. *Purt. i.* 63. Syme, E. B. x. 51. 1586.  
 Native; marshes, pools, ditches, and streams. Common, and generally distributed. P. May to July.  
 First record, Ick, Analyst, 1837, Saltley.

**H. multicaulis, Sm.** *Scirpus multicaulis, Sm.*

Top. Bot. 444. Syme, E. B. 53. 1588.  
 Native; spongy bogs. Very rare. P. June-July.  
 First record, the Author, 1870, *Proc. Birm. Nat. Hist. Society.*

2. BLYTHE. In a marshy coppice, near Packington, 1870.
4. AVON. Near Harborough, *Blox., Rugby Sch. Rep.*, 1871. Field by Long Planks, near Rugby, 1881, *Cumming.*

**SCIRPUS. Linn.****S. pauciflorus, Lightf.***Chocolate-headed Club-rush.*

Top. Bot. 444. Syme, E. B. x. 54. 1589.  
 Native; marshy and turfy bogs. Rare. P. July-August.  
 First record, Kirk, *Herb. Perry*, 1850.

1. TAME. Sutton Park, in several of the marshy and boggy places.
6. SOW. Stivichall, *Kirk, Herb. Per.*

**S. caespitosus, Linn.***Scaly-stemmed Club-rush.*

Top. Bot. 445. *Purt. i.* 64. Syme, E. B. 55. 1590.  
 Native; bogs and damp heathy roadsides. Rare. P. May-June.  
 First record, Ray, *Catalogus*, 1670. *Juncus parvus montanus cum parvis capitulis luteis*, J. B.

1. TAME. Middleton, *Ray, Cat. Ed. i.* 181. Sutton Common, *Luxford, Herb. Brit. Mus.*, May 23rd, 1835. Botany Nook, Sutton Park, *Power, MS.*
2. BLYTHE. Coleshill Bog, *Purt. i.* 64. *Kirk, Spec. Herb. Per.*

This plant appears to be extinct in Sutton Park now; the specimen in Perry's herbarium is correct.

**S. fluitans, Linn.***Floating Club-rush.*

Top. Bot. 445. Syme, E. B. x. 57. 1592.  
 Native; pools and marshes. Rare. P. June to August.  
 First record, W. W. Baynes, *MS.*, 1833.

1. TAME. Bracebridge Pool, Sutton Park.
2. BLYTHE. Marshy coppice, near Packington, 1869; small marsh on Coleshill Heath.
6. SOW. Haseley, *Herb. Per.* Wroxall Common, *Baynes, MS.*
7. STOUR. Abundant in a pit on Wolford Heath, near Great Wolford; Lower Eatington.

**S. setaceus, Linn.***Bristle-like Club-rush.*

Top. Bot. 442. Syme, E. B. x. 60. 1594.

Native; wet sandy ground, damp pastures, and roadsides. Very local. P. June to August.

First record, Power, MS., about 1816.

1. TAME. Damp pastures at Tyburn, *F. Terry*. Sutton Park; Hill Hook; Middleton Heath.
2. BLYTHE. Olton Reservoir; Olton Pool; lane from Four Ashes to Box Trees, Hockley; Forshaw Heath.
3. ANKER. Polesworth Common, *Power, MS*, Arbury Park, *Kirk, Herb. Per.* Heathlands, near Atherstone Outwoods; stone quarries, Hartshill.
4. AVON. Frequent about Rugby, *Baxter, MS*. Blue Boar Lane, near Rugby, *Rugby Sch. Rep.*, 1878. Gaydon, *Bolton King*.
5. LEAM. Itchington Holt! *Y. and B*.
6. SOW. Combe Wood, *Rugby Sch. Rep.*, 1886.
8. ALNE. Yarningale Common.

**S. lacustris, Linn.***Bulrush. Tall Club-rush.*

Top. Bot. 439. Purt. i. 63. Syme, E. B. x. 63. 1596.

Native; rivers, ditches, and pools. Locally abundant. P. July-August.

First record, Kirk, Herb. Perry, 1850.

1. TAME. Canal, at Tyburn! *F. Terry*. Sutton Park.
2. BLYTHE. Rivers Cole and Blythe, near Coleshill; Blythe, near Solihull; Bradnock's Marsh; Temple Balsall.
3. ANKER. Canals, about Atherstone; in the River Anker, in many places from near Caldecote to its confluence with the Tame.
4. AVON. In the river, near Avon Mill, and in the Swift near where it flows under the canal, *Rugby Sch. Rep.*, 1876. Chesterton Pool! *Y. and B*. Binton Bridges; Bidford; River Avon, Brandon; frequent in the Avon, near Rugby; canal, Hatton.
5. LEAM. In the Itchen, near Bascote Lodge; Birdingbury, and Draycote.
6. SOW. Whitmore Park, *Kirk, Herb. Per.* Near Brinklow.
7. STOUR. Honington! *Newb*.
8. ALNE. Canals, near Rowington and Bearley.
9. ARROW. Wixford, *Slatter*. In the river, at Oversley.
10. CHERWELL. Near Wormleighton and Farnborough.

**S. Tabernæmontani, Gmel.***S. glaucus, Sm. Glaucous Bulrush.*

Top. Bot. 439. Syme, E. B. x. 64. 1597.

Native; brackish marshes. Very rare. P. June to August.

First record, H. Bromwich, about 1860.

5. LEAM. Southam Holt, *Brom*. Itchington Holt; Grandborough Field.

This plant is becoming very rare in these localities, owing to drainage and reclamation.

**S. maritimus, Linn.***Sea Club-rush.*

Top. Bot. 441. Syme, E. B. x. 68. 1601.

Native; brackish marshes. Very rare. P. July.

First record, H. Bromwich, about 1870.

5. LEAM. Southam Holt, salt marsh, *Brom*. In abundance in a cattle pool, near Flecknoe House, near Rugby, 1883.

**S. sylvaticus, Linn.***Wood Club-rush.*Top. Bot. 440. *Purt.* i. 64. Syme, E. B. x. 69. 1602.Native; marshes, damp woods, river sides, and pools. Local, but widely spread. *P.* June-July.First record, Ray, Synopsis, 1724. *Cyperus gramineus*, J. B.

1. TAME. We have found it in many places as by the Thame side, near Tamworth, in Warwickshire, *Ray, Syn. Ed.* 3. 426. Edgbaston Pool, *With. Ed.* 7. 104. Side of brook, near Avern's Mill, *Ich, Anal.*, 1837. Sutton Park.
2. BLYTHE. Barston, near Knowle, *Perry, MS.* Spring Pools, Kenwalsey; marsh, by Olton Pool; lanes, near Olton Railway Station; Blythe Bridge, near Solihull; Henfield, near Knowle; Temple Balsall; near Knowle Railway Station; near Packwood; Bradnock's Marsh; Spring Coppice, near Hockley; Earlswood.
3. ANKER. Merivale, *Power, MS.*
4. AVON. Common on the Avon, about Rugby, *Baxter, MS.* Myton, Emscote, Harborough, *Y. and B.* In the river, near Avon Mill, and in the Swift, near Rugby Canal, *Rugby Sch. Rep.*, 1876. Binton Bridges! 1823, *Perry, MS.*
5. LEAM. Side of the canal between Offchurch and Bascote; Radford Semele; Southam, *Baynes, MS.* Snowford Bridge, 1887.
6. SOW. Combe Woods, 1875,
8. ALNE. Near Rowington; on the side of a drain, near Henley-in-Arden; near Claverdon; Lowson Ford.
9. ARROW. Oversley Mill! King's Coughton, *Purt.* i. 64. Coughton Mill; in a ditch, near Sambourn.
10. CHERWELL. Spinny, near Farnborough.

**S. Carleis, Retz. *Blysmus compressus*, Panz.**

Syme, E. B. x. 48. 1583.

Native; damp pastures. Very rare. *P.* July.

First record, Miss C. E. Palmer, 1853.

4. AVON. Near Lighthorne, *Miss Palmer.*

This is a truly interesting addition to our Warwickshire Flora. As it occurs in the neighbouring counties of Worcester and Stafford, it may probably prove to be more frequent in this county than experience at present permits us to record.

**ERIOPHORUM. Linn.****E. vaginatum, Linn.***Hare's-tail Cotton-grass.*Top. Bot. 446. *Purt.* i. 66. Syme, E. B. x. 71. 1604.Native; bogs and boggy heathlands. Rare. *P.* March-April.

First record, Withering's Arrangement, 1787.

1. TAME. In a marshy valley, crossed by a foot-road to Winson Green, *With. Ed.* 2. 52. Sutton Park. abundant.
2. BLYTHE. Packington! *Aylesford, B. G.* 633. Bannersley Pool! Coleshill Bog! *Bree in Purt.* i. 66. Marshy coppice, near Packington; near Honiley.
8. ALNE. Shrewley Pool, *Brom.* Extinct in this locality now, I believe.

**E. angustifolium, Roth.**

*Common Cotton-grass.*

Top. Bot. 447. *Purt.* i. 65. Syme, E. B. x. 73. 1605.

Native; bogs and boggy heathlands. Rather rare. *P.* April-May.

First record, Withering's Arrangement, 1787. *Eriophorum polystachion*, L.

1. TAME. Birmingham Heath. *With. Ed.* 2. 53. Sutton, *Freeman Phyt.* i. 261. Sutton Park, abundant.
2. BLYTHE. Packington, *Aylesford*, B. G. 633. Coleshill Pool and Bog; marshy coppice, near Packington; sand quarry, Cornets End; Bradnock's Marsh.
3. ANKER. Bogs about Polesworth, *Power, MS.*
5. LEAM. In a swampy field between Offchurch and Bascote, *Baynes, MS.*
6. SOW. Haseley Common, *Perry, MS.* Near Honiley Mill; Rounsel Lane, Kenilworth, *Brom.* Pool, near Tile Hill Wood, 1882.
8. ALNE. Shrewley Pool.
9. ARROW. Boggy field by Trent Lane Turnpike, *Purt.* i. 66.

\**E. latifolium*, Hoppe. Syme, E. B. x. 75. 1608. Coleshill Bog, *Bree, Saturday Magazine*, Vol. 4. p. 109. Is probably a *misnomer*.

**RHYNCHOSPORA. Vahl.**

**R. alba, Vahl.**

*White Beaked-Sedge.*

Top. Bot. 437. *Schænus albus*, L. *Purt.* i. 62. Syme, E. B. x. 46. 1582.

Native; turf bogs. Very rare. *P.* July-August.

First record, Withering's Arrangement, 1787, *Schænus albus*, L.

1. TAME. Birmingham Heath, *With. Ed.* 2. 44.
2. BLYTHE. Near Packington! *Aylesford*, B. G. 633. Coleshill Bog, *Purt.* i. 62. Marshy coppice, near Packington, 1870-85,
5. LEAM. Meadows between Offchurch and Bascote, *Baynes, MS.*

**SCHÆNUS. Linn.**

**S. nigricans, Linn.**

*Cyperus nigricans.*

Top. Bot. 437. *Purt.* i. 63. Syme, E. B. x. 43. 1529.

Native; bogs, boggy meadows. Very rare. *P.* July.

First record, Ray, Catalogus, 1670. *C. Juncus laevis panicula glomerata nigricante*, C. C.

1. TAME. "In meadows by the river Thameside, under Dorst-Hill (Dosthill), near Middleton." *Ray, Cat. Ed.* i. 181.
2. BLYTHE. Coleshill Bog, *Purt.* i. 168.

This may still exist at Dosthill, although I was unable to find it there in 1870, but I think it is extinct at Coleshill Bog.

**CLADIUM. P. Browne.**

**C. germanicum, Schrad. C. Mariscus, Br.**

*Fen Sedge.*

Top. Bot. 436. Syme, E. B. x. 44. 1580.

Native? river sides. Very rare. *P.* July-August.

First record. Ray, Catalogus, 1670. *Cyperus longus inodorus sylvestris*, Ger.

1. TAME. In the boggy closes under Dorst-hill, near Tamworth, *Ray, Cat. Ed.* i. 1670, 91. River Tame, below Coleshill, *Power, MS.*

Probably extinct now in both localities.

CAREX. *Linn.***C. dioica**, *Linn.*

Top. Bot. 448. Syme, E. B. x. 78. 1610.

Native; peaty and boggy heaths. Rare. P. June-July.

First record, Baynes, MS., 1833.

1. TAME. Sutton Park, abundant; marshy heathland, Ballard's Green, near Arley.
6. SOW. Honiley Heath, May, 1833, *Baynes, MS.* Stivichall Pool, *Kirk, Herb. Per.*

**C. pulicaris**, *Linn.*

*Flea Sedge. Harpoon Carex.*

Top. Bot. 449. Purt. ii. 441. Syme, E. B. x. 80. 1612.

Native; boggy and damp peaty heaths. Rare. P. June-July.

First record, Ray, Catalogus, 1670. *Gramen cyperoides pulicare*, R.

1. TAME. "*Flea Grass*. This was so denominated by Mr. Goodyer, because the seeds, which turn downward on the stalk, do in shape and colour resemble fleas; about Middleton, in Warwickshire!" *Ray, Cat.* Ed. i. 148. Abundant in Sutton Park; Hill Hook; Ballard's Green, near Arley.
2. BLYTHE. Quarry, Cornets End, near Berkswell; Hill Bickenhill.
4. AVON. On some marshy ground, near Rugby, *Purt. ii.* 441. Banks of canal, near Hill Morton Locks, *Rugby Sch. Rep.*, 1880. Hill Wootton, *Brom.*
5. LEAM. Whitnash Pastures, *Brom.*
7. STOUR. Abundant on peaty heathland, near Great Wolford.

**C. disticha**, *Huds.* *C. intermedia*, Good.

*Soft Brown Sedge.*

Top. Bot. 452. Purt. ii. 442. Syme, E. B. x. 85. 1617.

Native; damp pastures, and near pools and rivers. Local. P. June-July.

First record, Purton, Midland Flora, 1817.

1. TAME. Abundant, Waterworks Grounds, Witton Lane; Windley Pool, Sutton Park.
2. BLYTHE. By the Cole, near Coleshill Mill; Bradnock's Marsh.
3. ANKER. By the Anker, lane above Mancetter; Shuttington Bridge.
4. AVON. Near Chesterton! *Herb. Per.* Blue Boar Lane, and near Cosford, Rugby, *Cumming.* Hill Wootton, *Herb. Per.*
6. SOW. Rounsell Lane, near Kenilworth, *Herb. Per.* Marshy heathland, Sow Waste Canal.
8. ALNE. Rowington Canal bank; Lawson Ford.
9. ARROW. In a thicket in the road from Dunnington to Abbot's Morton, *Purt. ii.* 442. Alcester Reservoir.

**C. teretiuscula**, *Good.*

*Lesser Panicked Sedge.*

Top. Bot. 455. Syme, E. B. x. 87. 1619-1620.

Native; spongy bogs. Very rare. P. June-July.

First localised record, the Author, 1869, var. *Ehrhartiana*, Sutton Park.

38. Warwick Kirk. Cat. Top. Bot., Ed. i. 437.

This is the only record I have of the type. There appear to be no specimens in Perry's herbarium.

Var. *b. Ehrhartiana*, Hoppe. Very rare.

1. TAME. Sutton Park, very abundant, 1869-86, at two of the pools.

**C. paniculata**, Linn. *Greater Panicked Sedge.*

Top. Bot. 456. Syme, E. B. x. 90. 1622.

Native; rivers, canals, pools, and damp woods. Locally common. P. May to July.

First record, Kirk to Topographical Botany, 1858.

1. TAME. Sutton Park, abundant; canal side, near Curdworth; Waterworks Grounds, Witton; Tyburn.
2. BLYTHE. Marston Green; Olton Pool; Henfield, near Knowle; canal bank, Temple Balsall; canal bank, near Knowle; Bradnock's Marsh; Earlswood.
3. ANKER. Near Baddesley Ensor; Shuttington; Burton Hastings.
4. AVON. Near Newbold-on-Avon; Hatton Canal.
5. LEAM. Radford Semele, *Y. and B.* Canal, near Radford Semele.
6. SOW. Honiley, *Y. and B.* Binley Common.
8. ALNE. Bearley Bushes.
10. CHERWELL. Farnborough.

**C. vulpina**, Linn. *Great Sedge.*

Top. Bot. 455. Purt. ii. 443. Syme, E. B. x. 91. 1623.

Native; ditches, marshes, damp meadows. Common, and generally distributed. P. May to August. With abnormal flowers at Priors Marston, near Southam Holt.

First record, the Author, Exchange Club Report, 1874.

**C. muricata**, Linn. *Prickly Sedge.*

Top. Bot. 454. Purt. ii. 442. Syme, E. B. x. 92. 1624.

Native; banks and waste heathy places. Frequent. P. May to July.

First record, Kirk to Topographical Botany, 1858.

1. TAME. Middleton, Arley, &c.
2. BLYTHE. Bannersley Pool; Marston Green; Earlswood.
3. ANKER. Rare. Canal bank, near Atherstone.
4. AVON. Near Little Lawford, *Rugby Sch. Rep.*, 1886. Oakley; Alveston Heath.
5. LEAM. Southam; Ufton.
6. SOW. Sow Waste; Binley Common; Corley.
7. STOUR. Honington, *Newb.* Wolford Heath; Whatcote.
8. ALNE. Tanworth; canal, near Yarningale.
9. ARROW. Ipsley; near Iron Cross; Studley.
10. CHERWELL. Farnborough Pool, 1889.

Var. *b. pseudo-divulsa*, Syme. Rare.

8. ALNE. Near Haywood.

**C. divulsa**, Good. *Grey Sedge.*

Top. Bot. 454. Purt. ii. 443. Syme, E. B. x. 94. 1625.

Native; banks, heathy roadsides. Local. P. May to July.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Packington ; near Blythe Hall, Coleshill ; Bannersley Rough ; heathy roadsides, Barston Marsh ; heathy waysides, Blythe Bridge, near Solihull.
4. AVON. Old Park, Warwick ; Hatton Rock, *Brom.* Salford Priors ; Red Hill, near Alcester.
5. LEAM. Harbury, *Brom.*
6. SOW. Sow Waste.
7. STOUR. Honington, *Newb.*
8. ALNE. Rowington ; canal, near Yarningale ; Little Alne ; near Aston Cantlow ; Lapworth.
9. ARROW. On a hedgebank between Wixford and Pophills, *Purt.* ii. 443. Iron Cross, near Wixford ; Studley, near the Railway Station ; Morton Bagot.

**C. echinata**, *Murr.* *C. stellulata*, Good.

Top. Bot. 450. Syme, E. B. x. 94. 1626.

Native ; bogs, marshes, damp woods. Rare and local. P. May to August. First record, Ray, Catalogus, 1670. *Gramen sylvaticum parvum tenuifolium cum spica aculeata.* J. B.

1. TAME. In moist meadows and pastures about Middleton ! Ray, *Cat. Ed.* 1. 150. Near Little Sutton ; Sutton Park.
2. BLYTHE. Coleshill Bog, *Ich. Anal.*, 1837. Coleshill Pool ; School Rough, Marston Green ; bog at Hill Bickenhill ; pasture, by Olton Pool ; sand quarry, Cornets End ; near Berkswell ; damp pastures, by Packwood Mill ; Earlswood ; Forshaw Heath.
4. AVON. West Leys to Newbold, *Baxter.* Milverton, *Y. and B.* Hill Wootton, *Brom.*
6. SOW. Marsh on Binley Common.
8. ALNE. Haywood ! *Y. and B.*
9. ARROW. Wire Hill, Sambourn.

**C. remota**, *Linn.*

Top. Bot. 451. *Purt.* ii. 442. Syme, E. B. x. 96. 1627.

Native ; damp banks, by ditches and drains. Common, and generally distributed. P. June-July.

First record, Baynes, MS., 1833, near Warwick.

**C. axillaris**, *Good.*

Top. Bot. 451. Syme, E. B. x. 97. 1628.

Native ; damp banks and coppices. Rare. P. May to July. First record, the Author, 1873, Botanical Exchange Club Report.

1. TAME. Near Kingsbury Railway Station, lane to Hurley.
2. BLYTHE. Abundant on damp banks, near Hampton-in-Arden ; abundant in an osier holt near Solihull, 1872-8.
6. SOW. Near Rounsel Lane, Kenilworth, *Brom.*, *Herb. Brit. Mus.* In abundance near Ansty, near Coventry, with *C. remota*, 1883.

**C. Boenninghausenia**, *Weihe.*

Top. Bot. 452 ? Syme, E. B. x. 98. 1629.

Ambiguity ; bushy pits. Very rare. P. July.

First record, Bromwich, 1870.

6. SOW. Bushy pit, near Rounsel Lane, Kenilworth, *Brom.* Extinct. Probably an error.

**C. elongata**, Linn.

Top. Bot. 451. Syme, E. B. x. 99. 1630.

Native ; damp hedge banks and woods. Very rare. P. June-July.

First record, the Author, Botanical Exchange Club Report, 1875.

2. BLYTHE. Abundant in several places near Hampton-in-Arden ; abundant in a pool near Birchy Leasowes, Earlswood.

**C. curta**, Good. *C. canescens*, Linn.

*White Sedge.*

Top. Bot. 450. Syme, E. B. x. 102. 1631.

Native ; boggy meadows, pools, and banks. Rare, and local. P. May-June.

First record, Ray, Catalogus, 1670. *Gramen Cyp. elegans spica composita*, R.

1. TAME. In a pool in a grove not far from Middleton, towards Coleshill, in Warwickshire, Ray, Cat. Ed. 1. 1670. 147. *English Flora*, iv. 81. Sutton Park, near several of the pools.
2. BLYTHE. On the shores of Coleshill Pool ; marshy meadow, near Earlswood, in abundance, 1883.

**C. ovalis**, Good. *C. leporina*, L.

Top. Bot. 450. Purt. ii. 441. Syme, E. B. x. 103. 1634.

Native ; turf bog, damp heathy roadsides, and pastures. Common, and generally distributed. P. May to July.

First localised record, the Author, 1869, Sutton Park.

**C. stricta**, Good.

*Tufted Sedge.*

Top. Bot. 458. Purt. iii. 566. Syme, E. B. x. 108. 1638.

Native ; water sides and in marshy places. Very rare. P. April to June.

First record, Purton, Midland Flora, 1821.

6. SOW. Pool in Combe Abbey Grounds, 1885.

9. ARROW. "Not uncommon." At Pophills, on the side of a ditch near to the River Arrow, Purt. iii. 566.

Warwickshire (38). Kirk, Cat. Topographical Botany. I have been unable to find out Kirk's station. There is no specimen in *Herb. Perry* from Warwickshire. The plant was not in Purton's station in 1886, but there was a fine stout form of *C. paludosa* in the Arrow, close to where Pophills (which is a thing of the past) formerly existed.

**C. acuta**, Linn.

*Slender-spiked Sedge.*

Top. Bot. 458. Purt. ii. 450. Syme, E. B. x. 109. 1639.

Native ; near rivers, canals, and pools. Local. P. June-July.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Banks of the Blythe, Bradnock's Marsh ; near Ryton End.
3. ANKER. River Anker, near Grendon ; canal, near Grendon and Spon Lane.
4. AVON. Rugby, *Baxter, MS.* Chesterton Mill Pool ! River Avon, near Stratford ! *Brom.* In a stream near Newbold, and near Stanford Hall, *Rugby Sch. Rep.*, 1876. By the Swift, at Brownsover ; by Brandon Wood, 1881, *Cumming.*
5. LEAM. Banks of the Leam, near Offchurch, *Brom.*

6. SOW. Binley, *Kirk, Herb. Brit. Mus.* Combe Abbey Pool !  
 8. ALNE. Canal, near Yarningale ; canal, near Rowington.  
 9. ARROW. Blacklands, near Oversley Bridge, *Purt.* ii. 451.

**C. Goodenovii, J. Gay.** *C. vulgaris*, Fries. *C. caspitosa*, Good. *Common Sedge.*

Top. Bot. 457. *Purt.* ii. 449. Syme, E. B. x. 114. 1643.  
 Native ; bogs, marshes, damp pastures, &c. Common, and generally distributed. P. April to June.  
 First record, the Author, 1869.

Var. *b. juncella*, Fr. Very rare.

1. TAME. Hill Hook, near Sutton Coldfield.  
 6. SOW. Peaty wayside, near Hearsall Common, 1882.  
 9. ARROW. In plenty in a pit at Sambourn.

Other distinct forms of this species occur in various parts of this county, but these have not been sufficiently studied to allow of a more thorough treatment.

**C. glauca, Murr.** *C. recurva*, Huds. *Glaucous Heath Sedge.*

Top. Bot. 467. *Purt.* ii. 446. Syme, E. B. x. 116. 1644-5  
 Native ; dry, heathy pastures, roadsides, and quarries. Common, and generally distributed. P. April to July.  
 First record, Kirk, 1855. Var. *Micheliana*, Sm.

Var. *b. Micheliana* (Sm.) Very rare.

6. SOW. Wyken Colliery, *Kirk, Herb. Per.*, "Teste Borrer." Wyken Rumps, 1855, *Kirk, Herb. Brit. Mus.*

*C. glauca* is not only widely spread but also differs remarkably in character, and deserves more attention than has hitherto been given to it.

**C. pilulifera, Linn.** *Round-headed Sedge.*

Top. Bot. 468. Syme, E. B. x. 127. 1653.  
 Native ; woods, heaths, and heathy waysides. Rare or local. P. May-June.  
 First record, Baxter, MS., about 1841.

1. TAME. Sutton Park ; Ballard's Green, near Arley.  
 2. BLYTHE. Coleshill Heath ; School Rough, Marston Green ; Chelmsley Wood ; Earlswood, in several places ; Forshaw Heath.  
 4. AVON. Between Hill Morton and Rugby, *Baxter. MS.* Spinny, near Rugby, *Rugby Sch. Rep.* Lane to Church Lawford, *Cumming*, 1878. Brandon Wood, 1881, *Cumming*.  
 7. STOUR. Wolford Heath, near Great Wolford.  
 8. ALNE. Yarningale ! Haywoods ! *Y. and B.* Alderhanger, near Tanworth.  
 9. ARROW. Coughton Park ; Wire Hill, Sambourn.

A form approaching *C. Leesii*, Ridley, occurs with the type on Coleshill Heath.

**C. præcox, Jacq.** *Vernal Sedge.*

Top. Bot. 468. *Purt.* ii. 444. Syme, E. B. x. 129. 1655.  
 Native ; grassy heaths, roadsides, turfy banks. Local. P. April to June.  
 First record, the Author, 1869.

1. TAME. Sutton Park ; Middleton Heath.
2. BLYTHE. Coleshill Heath ; near Chelmsley Wood ; Marston Green ; near Sheldon ; Olton Reservoir ; Earlswood Reservoir ; Forshaw Heath.
3. ANKER. Baddesley Common ; Parley Park ; Hartshill Quarries ; Shuttington.
4. AVON. Lighthorne, *Miss Palmer*.
6. SOW. Kenilworth, frequent, *Y. and B.* Sow Waste.
7. STOUR. Wolford Heath, near Great Wolford.
8. ALNE. Yarningale Common ; Shrewley Common ; near Haywood ; Lapworth Street.

**C. pallescens, Linn.***Pale Sedge.*

Top. Bot. 461. Purst. ii. 447. Syme, E. B. x. 132. 1657.  
Native ; woods, damp pastures, and roadsides. Local. P. May-June.  
First record, Ray, Catalogus, 1670. *Gramen cypripedium polystachion flavicans*, R.

1. TAME. Middleton ! Ray, *Cat. Ed.* 1. 1670. 144. Hill Hook ; New Park, Middleton ; Kingsbury Wood.
2. BLYTHE. Butler's Wood, Maxstoke ; damp meadows, near Solihull Railway Station ; Whey-porridge Lane, Solihull ; damp pastures, near Knowle Railway Station ; pastures, near Lapworth Church ; waysides, Earlswood.
3. ANKER. Baddesley Common ; Parley Park ; Hartshill Quarries ; Shuttington.
4. AVON. Gaydon, *Bolton King*. Chesterton Wood.
5. LEAM. Princethorpe Wood, 1870. very abundant.
6. SOW. Honiley, *Y. and B.* Wood near Tile Hill Railway Station ; Combe Woods ; pastures, near Wroxall.
7. STOUR. Wolford Heath.
8. ALNE. Drayton Bushes ; damp field, near Lowson Ford ; Alderhanger, near Tanworth.
9. ARROW. Oversley Wood ! Purst. ii. 447. Footpaths, Sambourn Lane ; Coughton Park ; Wire Hill, Sambourn.

**C. panicea, Linn.***Pink-leaved Sedge.*

Top. Bot. 464. Purst. ii. 446. Syme, E. B. x. 133. 1658.  
Native ; turf bogs, damp heaths, and roadsides. Locally common. P. May-June.  
First record, Ick, Analyst, 1837.

1. TAME. Sutton Park ; Hill Hook ; Middleton Heath ; Trickley Coppice ; Whitacre Heath.
2. BLYTHE. Coleshill Bog ! Ick, *Anal.*, 1837. Earlswood.
3. ANKER. Hartshill Stone Quarries.
4. AVON. Chesterton ; roadside, near Stratford-on-Avon.
6. SOW. Beausale Heath, *Y. and B.*
7. STOUR. Heathy land near Great Wolford.
8. ALNE. Lowson Ford, near Lapworth ; Dilke's Lane, near Rowington ; Trap's Green.
9. ARROW. Hilly pasture, Morton Bagot ; pit near Sambourn.

**C. pendula, Huds.***Great Pendulous Sedge.*

Top. Bot. 466. Purst. ii. 444. Syme, E. B. x. 139. 1660.  
Native ; damp woods, thickets, and drains. Locally abundant. P. May-June.  
First record, Countess of Aylesford, 1805.

1. TAME. Shustoke ; Arley Wood ; Kingsbury Wood.
2. BLYTHE. Packington, *Aylesford, Bot. Guide*, 636. Maxstoke ; Hampton-in-Arden ; Balsall Common ; Spring Coppice, near Hockley.
3. ANKER. Bentley Park ; Parley Park ; Seas Wood, Arbury.
4. AVON. Waverley Wood, near Rugby ! *Cumming*. Near Baly's Locks, Warwick, *Baynes, MS.*
5. LEAM. Ufton Wood, 1832, *Baynes, MS.* Princethorpe Wood, 1870.
6. SOW. Tile Hill Woods ; Combe Woods.
7. STOUR. Honington Park ! *Newb.*
8. ALNE. Baddesley Clinton ; Rowington, canal bank ; Yarningale Common ; near Crab Mill, Preston Bagot ; Greal Alne ; Bearley Bushes ; Aston Cantlow ; Henley-in-Arden ; Kingswood ; Wood near Gannaway Gate.
9. ARROW. Oversley Wood ! Spennall Park, *Purt. ii.* 444. Morton Bagot ; Wire Hil, Sambourn.

**C. sylvatica, Huds.***Wood Sedge.*

Top. Bot. 466. *Purt. ii.* 446. Syme, E. B. x. 144. 1665.  
Native ; damp woods and pastures. Locally common. P. May-June.  
First localised record, Miss Palmer, Lighthorne, 1853.

1. TAME. Arley Wood, *Grove*. Near Shustoke ; Kingsbury Wood ; near Hurley.
2. BLYTHE. Eastcotes Green ; near Solihull ; Spring Coppice, Hockley ; Earlswood.
3. ANKER. Hartshill Hayes ; Bentley Park.
4. AVON. Lighthorne, *Miss Palmer*. Stoneleigh Park ; Alveston Pastures.
5. LEAM. Princethorpe Wood ; Ufton Wood.
6. SOW. Kenilworth ! *Y. and B.* Tile Hill Woods ; Combe Woods.
7. STOUR. Honington, *Newb.* Whichford Wood ; Great Wolford Wood.
8. ALNE. Haywood ; Bearley Bushes ; Aston Cantlow ; Drayton Bushes ; Chalcote Wood.
9. ARROW. Morton Bagot ; Wire Hill, Sambourn.
10. CHERWELL. Farnborough.

**C. lævigata, Sm.**

Top. Bot. 464. Syme, E. B. x. 146. 1666.  
Native ; shady, wet places. Very rare. P. June-July.  
First record, the Author, 1868.

1. TAME. Sutton Park, 1868.
4. AVON. Sitchfields, Chesterton, *Brom.* Line's Spinny, near Rugby, *Rugby Sch. Rep.*, 1880.
5. LEAM. Harbury, railway cutting ; Fosseroad, near Harbury, *Brom.*

**C. binervis, Sm.***Green-ribbed Sedge.*

Top. Bot. 464. *Purt. ii.* 445. Syme, E. B. 147. 1667.  
Native ; damp heaths, roadsides, woods, and pastures. Locally common. P. June-July.  
First record, Purton, Midland Flora, 1817, *C. distans*, Lightf.

1. TAME. Sutton Park ; Middleton Heath ; Hill Hook.
2. BLYTHE. Berkswell, *Brom.* Coleshill Heath ; Bannersley Rough ; Little Hell, near Honiley ; Forshaw Heath.
3. ANKER. On a ditch bank, near Tamworth, *Baynes, MS.* Baddesley and Baxterley Commons.
4. AVON. Alveston Pastures.

6. SOW. Combe Woods.
7. STOUR. Wolford Heath, near Great Wolford.
8. ALNE. Alderhanger, near Tanworth ; Haywood ; Drayton Rough Moors.
9. ARROW. Oversley! Coughton! *Purt.* ii. 445. Wire Hill, Sambourn ; Coughton Park.

**C. distans, Linn.**

Top. Bot. 463. Syme, E. B. x. 149. 1668.

Native ; turfy, brackish bogs. Very rare. P. June-July.

First record, Baxter, MS., 1841.

4. AVON. Between Hill Morton and Rugby, *Baxter, MS.* Near Harborough Magna, *Blox.* Chesterton! *Y. and B.* Moreton Morrell, *Brom.* Old canal, near Newbold, *Rugby Sch. Rep.*, 1886. Marshy places in Alveston Pastures ; boggy land, near the Avon, Binton Bridges.
5. LEAM. Itchington. *Y. and B.* Southam Holt! *Brom.* Itchington Holt.
7. STOUR. Inland form about Honington ; a plant of the district in suitable places, *Newb.*

**C. fulva, Good.**

*Tawny Sedge.*

Top. Bot. 462. Syme, E. B. x. 152, 1669.

Native ; shady turfy bogs and marshy places. Very rare. P. June-July.

First record, Kirk, Herb. Perry, 1852.

1. TAME. Sutton Park, abundant, 1875, now nearly exterminated by drainage and railway workings.
6. SOW. Stivichall, *Kirk, Herb. Per.*, 1852.
7. STOUR. Wolford Heath.
9. ARROW. Wire Hill, Sambourn, 1886.

**C. flava, Linn.**

Top. Bot. 459. *Purt.* ii. 445. Syme, E. B. x. 158. 1672.

Native ; bogs and marshes. Very local. P. May-June.

First record, Purton, Midland Flora, 1817.

1. TAME. North end of Sutton Park.
2. BLYTHE. Bannersley Pool ; marshy coppice, Hill Bickenhill ; roadsides, Earlswood.
4. AVON. Hill Wootton, *Brom.* Milverton, *Y. and B.*
5. LEAM. Christmas Hill, Bishop's Itchington, *Bolton King.*
8. ALNE. Snitterfield Bushes, *Purt.* ii. 445. Rowington ; marshy field, near Lowson Ford.
9. ARROW. Oversley, *Purt.* ii. 445. Wire Hill, Sambourn.

Var. *b. minor*, Townsend.

First record, Baynes, MS., 1832, *C. Œdæi*.

1. TAME. Sutton Park, very abundant ; Middleton Heath ; Hill Hook ; Ballard's Green, Arley.
2. BLYTHE. Honiley Heath, *Baynes, MS.*, 1832. Bannersley Pool ; marshy coppice, Hill Bickenhill ; Coleshill Pool ; Marston Green ; sand quarry, Cornets End ; damp pastures, Olton Pool ; Shirley Heath ; Earlswood Reservoir ; Forshaw Heath.
3. ANKER. Baddesley and Baxterly Commons.

4. AVON. Pond by Brandon Wood, 1881, *Cunningg.*
6. SOW. Kenilworth Heath, *Brom.*
7. STOUR. Wolford Heath, near Great Wolford.
8. ALNE. Haywood! Yarningale Common! *Brom.* Chalcote Wood, Umberslade; Alderhanger, near Tanworth.
9. ARROW. Footways by Coughton Park; Wire Hill, Sambourn; pool, Sambourn Village; Alcester Reservoir.

The *C. Ederi* of the older Warwickshire botanists was what is now called *C. flava* var. *minor*.

### *C. hirta*, Linn.

*Hammer Sedge.*

Top. Bot. 469. Purt. ii. 451. Syme, E. B. x. 161. 1677.  
Native; meadows and damp places. Local. P. May to July.  
First record, Withering's Arrangement, 1801.

1. TAME. Stew. at Edgbaston, *With. Ed.* 4. iii. 111. Erdington, *Grove*. Sutton Park; Middleton Heath; Kingsbury.
2. BLYTHE. Roadsides, near Coleshill; Cornets End; Bradnock's Marsh; Henfield; Solihull; Packwood.
3. ANKER. Lane, near Mancetter; canal siding, Atherstone.
4. AVON. Brandon, near the railway; Newbold-on-Avon; canal siding, Myton; Chesterton; Alveston Heath; Binton Bridges.
5. LEAM. Fossoad, near Tachbrook, 1833, *Baynes, MS.* Near Itchington.
6. SOW. Honiley, *Brom.* Sow Waste Canal; Brinklow; Ansty; Combe Pastures; Corley Moor.
7. STOUR. Honington, *Newb.* Wolford Heath, near Great Wolford.
8. ALNE. Lowson Ford; near Lapworth; Drayton Bushes.
9. ARROW. Sambourn; Coughton; Arrow Lane, near Alcester; Alcester Reservoir.
10. CHERWELL. Near Wormleighton Reservoir; near Farnborough.

### *C. Pseudo-cyperus*, Linn.

*Cyperus-like Sedge.*

Top. Bot. 467. Purt. ii. 448. Syme, E. B. x. 163. 1685.  
Native; moist, shady places, banks, and near pools. Local, but widely spread.  
P. June-July.  
First record, Purton, Midland Flora, 1817.

1. TAME. Sutton Park, Windley Pool.
2. BLYTHE. Maxstoke; Marston Green; bank, near Olton Station; copse near Henfield, Knowle; pool by Barber's Coppice; Hampton-in-Arden; Earlswood Reservoir, with female flowers at the top of male catkin; small pool near Three May Poles, Shirley Heath.
3. ANKER. Pools near Arbury Hall, *Kirk, Phyt.* ii. 971. Bentley Park; Shuttington; Attlebury Fields; road from Wolvey to Ryton.
4. AVON. Old Park, Warwick, *Brom.* Near Causton House, Rugby, *Rugby Sch. Rep.*, 1876. In a pond at the Woodloes, Warwick! *Perry, MS.*
5. LEAM. Pond outside Frankton Wood! *Rugby Sch. Rep.*, 1876. Duke Wood, Wappenbury.
6. SOW. Pinley; near Stoke Heath, *Kirk, Phyt.* ii. 971; Kenilworth, *Y. and B.* Wroxall; Beausale Common, *Brom.* Abundant, Tile Hill Woods; pond near Tile Hill; Combe Woods.
7. STOUR. Honington, *Newb.*
8. ALNE. On the edge of a pool, at Kinwarton, *Purt.* ii. 448. Bearley Bushes; Snitterfield Bushes; pool, near Pinley Hill.

**C. paludosa, Good.***Lesser Pond-Sedge.*

Top. Bot. 470. Purt. ii. 450. Syme, E. B. x. 165. 1678.

Native; canals, ditches, marshy ground, damp woods. Locally common. P. April to June.

First record, the Author, 1867.

1. TAME. Sutton Park; Middleton; Hill Hook.
2. BLYTHE. Warwick Canal, from Olton to Knowle; Bradnock's Marsh; Barston Marsh; Blythe Bridge; Shirley Canal, &c.
3. ANKER. Shuttington; Grendon; Griff Hollows, &c.
4. AVON. Side of Little Lawford Mill, *Rugby Sch. Rep.*, 1876. Canal, near Newbold-on-Avon; Hill Wootton; Binton Bridges, &c.
5. LEAM. Radford, *Y. and B.* Canal, from Radford Semele to Long Itchington.
6. SOW. Near Wroxall Abbey; near Kenilworth, *Brom.* Pool, Combe Abbey Grounds.
8. ALNE. Canal, Rowington; near Yarningale Common.
9. ARROW. In the Arrow, Broom Mill.
10. CHERWELL. Canal, near Wormleighton Reservoir; pool at Upton House, Edge Hill.

Var. *b. Kochiana*, Gaud. Local.

1. TAME. Waterworks Grounds, Witton; Pool Hollies Wood, Sutton Park.
2. BLYTHE. Bradnock's Marsh; Henfield, Knowle; Blythe Bridge, Solihull; canal, Hockley.
3. ANKER. Marsh near Shuttington Bridge.
4. AVON. Canals, near Rugby! *Cumming*. Old canal, near Newbold-on-Avon; Binton Bridges.
5. LEAM. Brook at Radford, Warwickshire, *Brom., Herb. Bab.* Radford Semele Canal.
8. ALNE. Canal, near Holywell.
9. ARROW. Black Grounds, Ipsley.

This variety occurs frequently with the type, but it requires minute examination to separate them, so that it may be found in many of the districts assigned to var. *a*.

**C. riparia, Curtis.***Greater Pond-Sedge.*

Top. Bot. 471. Purt. ii. 449. Syme, E. B. x. 167. 1679.

Native; near rivers, pools, canals, and damp woods. Frequent. P. April to June.

First record, the Author, 1869, Coleshill.

1. TAME. Sutton Park; Middleton; Kingsbury.
2. BLYTHE. Bradnock's Marsh; Ryton End; Stonebridge, &c.
3. ANKER. Shuttington; Austrey; Caldecote; Seas Pool, Arbury.
4. AVON. Lighthorne, *Miss Palmer*. Canals, Newbold-on-Avon; Warwick Stratford-on-Avon; Binton Bridges.
5. LEAM. Harbury Heath; Radford Semele; Birdingbury.
6. SOW. Sow Waste; Ansty; Combe Woods.
7. STOUR. Honington, *Newb.*
8. ALNE. Canal, Rowington; Yarningale; Bearley.
9. ARROW. Wood, near Spennall; Broom; Alcester Reservoir.
10. CHERWELL. Canal, near Wormleighton Reservoir.

A form occurs in a boggy coppice, near Stonebridge, in which there are female flowers and perfect fruit at both top and bottom of male spikes.

**C. rostrata**, Stokes.*Bottle Sedge.*

Top. Bot. 469. Syme, E. B. x. 168. 1680. *C. ampullacea*, Good.

Native; near ponds and pools. Very local. P. May-June.

First record, Ray, Catalogus, 1670. *Gr. cyperoides polystachyon majus, spicis teretibus erectis*, R.

1. TAME. In several pools about Middleton, *Ray, Cat. Ed. i.* 145. Edgbaston Pool, *With. Ed. 4.* 110. Sutton Park, very abundant; Hill Hook.
2. BLYTHE. Packington, *Aylesford, B. G.* 636. Coleshill Pool; Marston Green; near Solihull.
3. ANKER. Baddesley Ensor.
4. AVON. Avon bank, Rugby, *Baxter, MS.* Hill Wootton, *Brom.* Milverton, *Y. and B.*
6. SOW. Pit at Wroxall, *Brom.*
7. STOUR. Pool, Welford Heath.
10. CHERWELL. Wormleighton Reservoir.

**C. vesicaria**, Linn.*Bladder Sedge.*

Top. Bot. 470. Purt. ii. 451. Syme, E. B. x. 170. 1682.

Native; marshes, pools, damp woods, and coppices. Local, but widely spread. P. May-June.

First record, Withering's Arrangement, 1801.

1. TAME. Edgbaston Pool, *With. Ed. 4.* 110. Kingsbury Wood.
2. BLYTHE. Packington, *Aylesford, Bot. Guide*, 636. Damp pastures, near Coleshill; Coleshill Pool; Bradnock's Marsh; Olton Pool; osier holt, near Solihull; copse, near Henfield, Knowle; Earlswood, in several localities.
3. ANKER. Seas Pool, Arbury.
4. AVON. Chesterton and Chesterton Pool, *Brom.* Pond by Blue Boar Lane, *Blox., Rugby Sch. Rep.*, 1876.
5. LEAM. Harbury, *Blox.* Pond at Frankton Wood, *Rugby Sch. Rep.*, 1876.
6. SOW. Footway from Eastern Green to Allesley; Binley Common; Wroxall.
8. ALNE. At the edge of a large pit near to Great Alne Mill, *Purt. ii.* 451.

## ORD. IXXXII. GRAMINEÆ.

[\*\* *Panicum sanguinale*, Scop. Occurs as a casual near Kenilworth Railway Station, 1874, *Brom., Herb. Bab.*]

[\*\* *P. Crus-galli*, Linn. Occurs as a casual also near Kenilworth.]

Both these plants are probably introduced with foreign skins, or with ballast.

**SETARIA**. *P. Beauv.***S. viridis**, Beauv.*Bristle-grass.*

Top. Bot. 473. Syme, E. B. xi. 13. 1693.

Colonist; cultivated land. Rare. August.

First record, Bromwich, Herb. British Museum.

4. AVON. Myton, on railway banks, *Brom.*
5. LEAM. Leamington, *Y. and B.* Old gardens in the Southam Road, near Leamington.
6. SOW. Kenilworth, *Brom.*

[\*\* *S. glauca*, Beauv.

Occurs as a weed of cultivation near Milverton and Kenilworth, *Brom.*]

### PHALARIS. Linn.

[\*\* *P. canariensis*, Linn.

*Canary Grass.*

Syme, E. B. xi. 20. 1698.

Casual; waste heaps and cultivated land. Rare. A. July.

First record, Baxter, *Phanerogamous Botany*, 1834.

1. TAME. On waste heaps near Wyld Green; roadsides near Oscott College; Old Chester Road; railway banks, Sutton Park.
4. AVON. Near Rugby, on the road to Bilton, *Baxter, Ph. Bot.* vi. Canal side near the Cape, Warwick, *Brom.* Lighthorne, *Miss Palmer.* Abundant in a cornfield at Bilton, 1880.
5. LEAM. Near Leamington, *Brom.* Milverton.
6. SOW. Coventry Park, *Kirk, Herb. Per.* Kenilworth.]

### *P. arundinacea*, Linn.

*Ribbon Grass.*

Top. Bot. 473. Part. i. 69. Syme, E. B. xi. 19. 1697.

Native; rivers, streams, and pools. Common. P. June-July.

First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Near Arley, *Grove.* Aston, in the River Tame; Sutton Park; Middleton Park; Plant's Brook; Water Orton, &c.
2. BLYTHE. Marston Green; Bentley Heath; Temple Balsall; Earlswood; Hampton-in-Arden.
3. ANKER. Canal, Polesworth; Atherstone; near Shuttington; Austrey; Wolvey, &c.
4. AVON. Near Avon, St. Nicholas' Meadows, *Perry, MS.* Rugby district! *Rugby Sch. Rep.*, 1874. Alveston Heath; Stratford-on-Avon.
5. LEAM. Near Leamington, *Per. Fl.* 7. Ufton; Harbury.
6. SOW. Sow Waste and Ansty Canals; pool in Combe Abbey Park; Binley Common.
7. STOUR. Honington! *Newb.* Long Compton; Great Wolford.
8. ALNE. Rowington; Bearley; Henley-in-Arden.
9. ARROW. Wixford; Oversley; Spennall.
10. CHERWELL. Wormleighton Reservoir; Farnborough.

### ANTHOXANTHUM. Linn.

#### *A. odoratum*, Linn.

*Sweet Vernal Grass.*

Top. Bot. 473. Part. i. 58. Syme, E. B. xi. 17. 1696.

Native; pastures, woods, fields, heathlands, &c. Common, and generally distributed. P. April to June.

First record, Rugby School Report, 1868.

The var. *a. genuinum* is the more frequent plant on heathlands and in pastures; var. *b. villosus* occurs abundantly in several of the damp, shady woods. I think these are not more than inconstant forms.

[\*\**A. Puelii*, Lecoq. and Lam. Casual in a field lately turned into allotments near Leamington, *Brom.*]

### ALOPECURUS. *Linn.*

**A. agrestis, Linn.** *Slender Foxtail Grass.*

Top. Bot. 475. Purt. i. 68. Syme, E. B. xi. 22. 1699.  
Colonist; cultivated land and roadsides. Local and common. A. June-July.  
First record, Bree, New Botanist's Guide, 1835.

1. TAME. Fields, near Middleton.
2. BLYTHE. Near Sheldon Church; Coleshill; Marston Green; Hampton-in-Arden; Barston; Henfield, near Knowle.
3. ANKER. Caldecote; road from Austrey to Warton.
4. AVON. Frequent near Warwick, *Brom.* Rugby district! *Rugby Sch. Rep.*, 1872. Field near Bilton Church, 1880.
5. LEAM. Harbury, *Grove*. Birdingbury; field near Ufton Wood; Milverton.
6. SOW. Combe Fields; cornfield, near Binley.
7. STOUR. Honington; Armscote; Ilmington! *Newb.* Great Wolford; Eateington.
8. ALNE. Near Preston Bagot; Lapworth; Wilmcote.
9. ARROW. Field, near Coughton Park; lpsley.
10. CHERWELL. Fields near Farnborough.

**A. fulvus, Sm.**

Top. Bot. 474. Syme, E. B. xi. 23. 1700.  
Native; near ponds and pools. Rare. P. July-August.  
First record, Withering's Arrangement, 1804, *A. geniculatus*, L., var. 4.

1. TAME. Edgbaston Park, *With. Ed.* 4. 121. Near Birmingham, *Hook, Brit. Flora, Ed.* 4. 81. Pool in meadows by Powell's Pool, and near the entrance, Sutton Park, 1872-86.
2. BLYTHE. Abundant on the shores of Coleshill Pool, 1875-8; marsh near Hill Bickenhill; abundant, Earlswood Reservoir.
4. AVON. Old Park (Warwick), *Y. and B.*
6. SOW. Pit in Rounsel Lane, near Kenilworth! *Brom.* Kenilworth, *Y. and B.*
8. ALNE. Shrewley Pool, *Brom.*
10. CHERWELL. Pool at Wormleighton.

**A. geniculatus, Linn.**

Top. Bot. 474. Purt. i. 68. Syme, E. B. xi. 25. 1701.  
Native; pools, marshes, ditches, damp waysides, &c. Common, and generally distributed. P. May to September.  
First record, the Author, 1866, Sutton Park.

**A. pratensis, Linn.** *Meadow Foxtail Grass.*

Top. Bot. 474. Purt. i. 67. Syme, E. B. xi. 27. 1703.  
Native; pastures, meadows, roadsides, banks. Common, and generally distributed. P. May to August.  
First record, Rugby School Report, 1868.

**MILIUM.** *Linn.***M. effusum,** *Linn.**Millet Grass.*Top. Bot. 477. *Purt.* i. 72. Syme, E. B. xi. 60. 1728.

Native; woods and shady banks. Rare and local. P. May-June.

First record, Purton, Midland Flora, 1817.

1. TAME. Arley Wood; Kingsbury Wood.
2. BLYTHE. Meriden Shafts; Spring Coppice, Hockley.
3. ANKER. Seas Wood, Arbury; Hartshill Hayes; Caldecote; Grendon; Bentley Park.
4. AVON. Oakley Wood! *Perry, MS.* Near Guy's Cliff; Woodloes, Warwick, *Brom.* Edgehill Woods; Alveston Pastures; Brandon Wood.
5. LEAM. Ufton Wood! *Perry, MS.* Princethorpe Wood; Cubbington Wood.
6. SOW. Fern Hill Wood! *Brom.* Honiley! *Y. and B.* Wainbody Wood; Crackley Wood, Kenilworth; Combe Woods.
7. STOUR. Long Compton Woods.
8. ALNE Haywood! *Y. and B.* Gilbert's Coppice, Rowington, *Brom.* Quarry Lane, Rowington; Austey Wood, Wootton Wawen; woods near Claverdon; lanes about Lapworth; wood near Yarningale; wood, Gannaway Gate.
9. ARROW. Ragley and Oversley Wood, *Purt.* i. 72. Morgrove Coppice, Spennall; Coughton Park; Wire Hill, Sambourn.

**PHLEUM.** *Linn.***P. pratense,** *Linn.**Cat's-tail Grass. Timothy Grass.*Top. Bot. 473. *Purt.* i. 67. Syme, E. B. xi. 31. 1706-7.

Native; pastures, meadows, and roadsides. Common, and generally distributed, P. May to July.

First record, Rugby School Report, 1868.

Var. *b. nodosum* (Linn.) Rare and local.

First record, Young and Baker, 1873.

2. BLYTHE. Border of a pasture, footway from Ryton End to Barston Marsh.
4. AVON. Near Tachbrook, *Y. and B.* Alveston Heath! *Newb.* Sandy roadsides near Little Lawford Mill, near Rugby; near Binton.
5. LEAM. Harbury Heath; lane from Marton to Southam.
6. SOW. Combe Fields; near Worsley Bridge.
7. STOUR. Banks near Easington Railway Station.
9. ARROW. Sandy pasture near Rose Hall, Oversley.
10. CHERWELL. Footways near Warmington.

Var. *majus*, Sinclair. Very local.

4. AVON. Near Chesterton, *Brom.* In the principal drive, in Alveston Pastures Wood; Newbold Road, Rugby.
5. LEAM. Harbury Heath, abundant on the borders of cornfields.
8. ALNE. On the borders of a field near Haywood.

This is a tall form, often four feet high, with spike six or more inches long, with an erect (not ascending) stem, awns of florets shorter in proportion to the size of the glumes than in the type, and curving outwards. See Sinclair, *Hortus Gramineus Woburnensis*, pages 195-97. Mr. Sinclair grew both this variety and the type together, and found the distinctive characteristics constant.

AGROSTIS. *Linn.***A. canina, Linn.***Brown Bent-grass.*

Top. Bot. 478. Syme, E. B. xi. 46. 1718.

Native ; damp woods, copses, and damp roadsides. Local, but widely spread.

P. June-July.

First record, the Author, 1869, Sutton.

1. TAME. Sutton Park ; New Park, Middleton ; Arley Wood.
2. BLYTHE. Bannersley Pool ; marsh, Hill Bickenhill ; damp roadside, Brockhill Lane, Balsall Common ; Temple Balsall ; Olton Pool.
3. ANKER. Bentley Park ; Parley Park ; Ironstone Wood, Oldbury ; Shuttington.
4. AVON. Woodloes ! Warwick, *Y. and B.*
6. SOW. Haseley ; Rounsel Lane, near Kenilworth, *Brom.*
7. STOUR. Wolford Heath, near Great Wolford ; Wimpstone Fields.
8. ALNE. Haywood, *Y. and B.* Marshy coppice, near Kingswood ; Lye Green ; Yarningale.
9. ARROW. Oversley Wood ; Old Park, near Alcester ; Coughton Park.
10. CHERWELL. Wood, near Farnborough Pool.

**A. alba, Linn.***White Squitch. Marsh Bent-grass.*

Top. Bot. 478. Purt. i. 70. Syme, E. B. xi. 47. 1719-20.

Native ; damp places, by roadsides, pastures and meadows. Common, and generally distributed. P. June-July.

First record, the Author, 1866, Sutton Park.

Var. *b. stolonifera* (Linn.). Purt. i. 70. Rare.

4. AVON. Allotment land, Milverton.
8. ALNE. On sandy bank of an old railway cutting, near Henley-in-Arden.

The plants I find in these localities are identical with those usually found on sandy sea beaches.

**A. nigra, With.***Black Squitch.*

Top. Bot. 478. Journal of Bot. 1882, t. 227. p. 65.

Native ; borders of cultivated fields, railway sidings, old brickyards, and waysides. Local, but widely spread. P. July-August.

First record, the Author, 1882, Journal of Botany.

1. TAME. Railway sidings, Sutton Park, abundant ; in like places at Penns and Castle Bromwich ; lane by the Grange, Erdington ; Arley.
2. BLYTHE. Temple Balsall ; brickyard near Berkswell Railway Station ; fields, Meriden ; Earlswood.
3. ANKER. Near Bentley and Hartshill ; Oldbury ; Attlebury Fields ; Burton Hastings ; Wolvey.
4. AVON. Old Park, Warwick ; Stoneleigh ; Alveston Heath ; Binton ; marly banks, Chesterton Wood.
5. LEAM. Borders of field near Itchington ; Birdingbury.
6. SOW. Tile Hill, Allesley ; Binley, in cornfields.
7. STOUR. Fields near Great Wolford.
8. ALNE. Cornfields, Wilmcote ; Wawen's Moor.
9. ARROW. Fields and lanes Ragley and Alcester ; Broom.
10. CHERWELL. Farnborough ; Avon Dassett.

The more robust habit, rough leaf sheaths, more strongly toothed rachis and pedicles, ligule more prominent will distinguish *A. nigra* from *A. vulgaris*; it is also nearly a month later in coming into flower. From *A. alba* it differs in the more pyramidal panicle, less crowded florets, and in the panicle being open both in flower and fruit; the panicle of *alba* being closed in fruit.—See Withering, Ed. 4. 130.

**A. vulgaris**, With. *A. capillaris*, Huds. *Common Bent-grass*.

Top. Bot. 478. Purt. i. 70. Syme, E. B. xi. 49. 1721.

Native; pastures, meadows, roadsides, and banks. Common, and generally distributed. P. June-July.

First record, the Author, 1866.

Var. *b. pumila*, Linn. Wet sandy places. Rare.

1. TAME. Above Blackroot Pool, Sutton Park.
2. BLYTHE. Wet, sandy roadsides near Stonebridge.
4. AVON. Stithfield, Chesterton, *Brom.* Near Hatton.
6. SOW. Honiley; Haseley Common, *Brom.*
8. ALNE. Lye Green, *Herb. Per.* Yarningale Common! *Brom.*

[\*\* *Polypogon monspeliensis*, Desf. Syme, E. B. xi. 40. 1713.]

Casual; waste heathy places. Rare. P. July.

6. SOW. Kenilworth Heath, in great plenty, *Dr. St. Brody in Litt.*]

**CALAMAGROSTIS**. Adans.

**C. epigeios**, Roth. *Arundo epigeios*, L. *Wood Small Reed*.

Top. Bot. 479. Purt. ii. 730. Syme, E. B. xi. 53. 1723.

Native; woods, hedge banks, and shady places. Local. P. July-August.

First record, Purton, Midland Flora, 1817. *Arundo Calamagrostis*.

1. TAME. Upper Stew in Edgbaston Park, *With. Ed.* 7. 197. Small wood near Tyburn, *F. Terry*. Wood at Walmley, *J. B. Stone*. Arley Wood.
2. BLYTHE. In hedges at Duke End, Maxstoke; Coleshill Pool.
3. ANKER. Near Arbury Hall, *Kirk, Phyt.* ii. 972. Bushy wayside, road from Wolvey to Ryton.
4. AVON. Salford, *Purt.* ii. 730. Brandon Wood; Stoneleigh, *Kirk, Herb. Brit. Mus.* Moreton Morrell, *Y. and B.* Tachbrook; Lighthorne Rough; Grove Park, *Brom.* Warwick old Park; Chesterton Wood; Alveston Pastures.
5. LEAM. Harbury, *Brom.* Ufton Wood; Princethorpe Wood; wood near Marton Railway.
6. SOW. Allesley! *Bree, Mag. Nat. Hist.* iii. 163. Combe Woods.
7. STOUR. Between Shipston and Darlingcote; Wayland Wood, *Newb.*
8. ALNE. Alveston Pastures; Bearley Bushes.
9. ARROW. Dunnington; Wetherley, *Purt.* ii. 730. Wood, near Alcester, *Blax., MS., N. B. G.*, 1835. Oversley Wood; Old Park Wood; Cold Comfort Farm; Rough Hill Wood, Sambourn.

See note, Purton, Midland Flora, vol. iii. 338.

**C. lanceolata**, Roth. *Purple-flowered Small Reed*.

Top. Bot. 479. Purt. iii. 338. Syme, E. B. xi. 54. 1724.

Native; damp woods and near pools. Rare. P. July.

First record, Kirk, *Herb. Brit. Museum*, about 1850.

2. BLYTHE. Olton Pool, *J. Bagnall, Herb. Brit. Mus.*
3. ANKER. Near Griff, *Kirk, Herb. Brit. Mus.*
5. LEAM. Ufton Wood, 1880, abundant 1886.
6. SOW. Binley Bogs, *Kirk, Herb. Per.* Combe Woods, Adams, 1886.

### GASTRIDIDIUM. Beauv.

**G. lendigerum**, *Gaud.* *G. australe*, Beauv. *Awmed Nitgrass.*

Top. Bot. 476. Syme, E. B. xi. 37. 1711.

Colonist; borders of cornfields. Rare. A. July.

First record, Bloxam, New Botanist's Guide, Sup. 1837.

4. AVON. Hampton-on-the-Hill; Grove Park, near Hatton; Norton Lindsay, *Herb. Per.* King's Lane, Stratford-on-Avon; *Cheshire, Herb. Per.* Tachbrook, *Brom.*
8. ALNE. Wilmcote, *Herb. Per.*
9. ARROW. Cornfields, near Alcester, *Blox., N. B. G. S.*

[\*\* *Apera Spica-venti*, Beauv. *Silky Bent-grass.*

Casual; in cultivated land. In a newly-made garden at Saltsford, *Perry, MS.*  
Abundant in sandy cornfields, Milverton, *Brom.*]

### AIRA. Linn.

**A. caryophyllea**, Linn. *Silver Hair-grass.*

Top. Bot. 480. Purt. i. 73. Syme, E. B. xi. 69. 1734.

Native; sandy heaths, roadsides, pastures, banks. Rare and local. A. June-July.

First record, Purton, Midland Flora, 1817.

1. TAME. Common about Edgbaston, *Freeman, Phyt.* i. 262. Sandy banks, Gravelly Hill; roadsides, near Wyde Green Railway; sandy waysides, Hill, near Sutton; Middleton Heath.
2. BLYTHE. Coleshill Heath; Bannersley Rough; Hill Bickenhill; Hampton-in-Arden; Balsall Common.
3. ANKER. Atherstone Outwoods! *Kirk, Herb. Per.* Ironstone Wood, Oldbury; Parley Park.
4. AVON. On a sandstone rock, at Milverton, *Baynes, MS.* Near Brandon.
6. SOW. Kenilworth Heath, 1827, *Perry, MS.* Corley Rock.
8. ALNE. Yarningale Common! *Brom.* High Cross, near Claverdon.
9. ARROW. Oversley Wood, on a sandy bank, *Purt.* i. 73. High land by Banum's Wood, Morton Bagot.

Var. *aggregata*, Tim.

1. TAME. Hill, near Sutton.
2. BLYTHE. Near Hill Bickenhill.

**A. præcox**, Linn. *Early Hair-grass.*

Top. Bot. 480. Purt. iii. 8. Syme, E. B. xi. 71. 1735.

Native; heaths and heathy roadsides. Local and rare. A. April-May.

First record, Perry, MS., 1827.

1. TAME. Roadside near Wylde Green Railway ; Sutton Park ; Middleton Heath.
2. BLYTHE. Bannersley Rough ; Coleshill Heath ; Hampton-in-Arden ; Earlswood ; Forshaw Heath.
3. ANKER. Baddesley Common ; Hartshill Quarries ; marshy land, near Shuttington.
4. AVON. Sandstone rock, near Milverton, *Baynes, MS.* Whitnash ; Tachbrook, *Y. and B.* Sandy field, near Milverton, *Brom. Brandon Wood, Rugby Sch. Rep.*, 1886.
6. SOW. Kenilworth Heath ! 1827, *Perry, MS.* Stivichall Common ; Corley Moor.
8. ALNE. Yarningale Common, 1887.
9. ARROW. Hilly common, near Morton Bagot.

DESCHAMPSIA. *Beauv.*

*D. cæspitosa*, *Beauv.* *Aira cæspitosa*, Linn. *Tufted Hair-grass.*

Top. Bot. 480. Purt. i. 73. Syme, E. B. xi. 64. 1730.

Native ; rivers, streams, pools, damp heaths, and waysides. Common, and generally distributed. P. June to August.

First known record, the Author, 1866.

A variety closely approaching var. *brevifolia*, Parn., occurs in Sutton Park ; near Highdown, Tachbrook ; and on Alcester Heath. It grows widely scattered, in solitary individuals, and not cæspitose ; has short root leaves, from 3 inches to 4 inches long ; has small panicles, with flowers larger than type.

*D. flexuosa*, *Trin.* *Aira flexuosa*, Linn.

Top. Bot. 480. Purt. i. 73. Syme, E. B. xi. 67. 1732.

Native ; heaths, roadsides, banks, and open woods. Locally abundant. P. June-July.

First record, Withering's Arrangement, 1801.

1. TAME. Dry woods in Sutton Park ! *With. Ed. 4. ii. 136.* Middleton Heath ; Trickle Coppice ; New Park, Middleton.
2. BLYTHE. Bannersley Rough ; Coleshill Heath ; Marston Green ; Hampton-in-Arden ; lanes about Solihull and Knowle ; Hockley ; Earlswood ; Forshaw Heath.
3. ANKER. Bentley Park ; Baxterley and Baddesley Commons ; Shuttington ; Polesworth.
4. AVON. Sandy heaths, Rugby, *Baxter, MS.* Spinny between Blue Boar and Wolston ! near Overslade, Dunchurch Road, *Rugby Sch. Rep.*, 1876.
5. LEAM. Harbury Heath.
6. SOW. Kenilworth ; Combe Woods ; Stivichall ; Corley Rock.
7. STOUR. Heathland near Great Wolford ; wood near White House, Tysoe.
8. ALNE. Haywood ! *Y. and B.* Tanworth ; Bushwood, near Lapworth.
9. ARROW. Wire Hill, Sambourn ; Coughton Park and Heath.
10. CHERWELL. Ratley, Edge Hill.

A form remarkably like the var. *b. montana* (Huds.) is occasional on exposed heathlands in Sutton Park and on Kenilworth Heath ; and a robust form with large flowers and long ligule, but in the structure of its flowers like the type, grows in boggy and damp woods in Sutton Park, Middleton, Earlswood, Tanworth.

**HOLCUS.** *Linn.***H. mollis,** *Linn.**Creeping Soft-grass.*

Top. Bot. 483. Purt. iii. 78. Syme, E. B. xi. 83. 1743.

Native; banks, roadsides, and damp shady woods. Common, and generally distributed. P. July-August.

First record, Baxter, MS., about 1844.

**H. lanatus,** *Linn.**Yorkshire Fog.*

Top. Bot. 483. Purt. ii. 492. Syme, E. B. xi. 84. 1744.

Native; pastures, banks, roadsides, and heathlands. Very common, and generally distributed. P. June to September.

First record, Rugby School Report, 1868.

**TRisetum.** *Pers.***T. pratense,** *Pers.* *Avena flavescens,* L.*Yellow Oat-grass.*

Top. Bot. 482. Purt. i. 85. Syme, E. B. xi. 73. 1736.

Native; meadows, pastures, roadsides, and banks. Rather common. P. June-July.

First localised record, the Author, Proc. Birm. Nat. Hist. Society, 1869.

1. TAME. Canal bank, Gravelly Hill; Sutton Park; Middleton; Kingsbury.
2. BLYTHE. Coleshill, 1869; Marston Green; Solihull; Temple Balsall; Earlswood, &c.
3. ANKER. Baddesley Ensor; Ansley; Baxterley; Shuttington; Polesworth.
4. AVON. Sherborne, *Y. and B.* Edge Hill; Kineton; Alveston Heath; Stratford-on-Avon, &c.
5. LEAM. Harbury Heath; Ufton.
6. SOW. Allesley; Combe Fields; Foleshill.
7. STOUR. Honington, *Newb.* Footways and field borders, Great Wolford; Brailes, &c.
8. ALNE. Henley-in-Arden; Claverdon.
9. ARROW. Ipsley; Studley; Broom; Wixford; Oversley.
10. CHERWELL. Farnborough; Warmington.

**AVENA.** *Linn.***A. pubescens,** *Linn.**Downy Oat-grass.*

Top. Bot. 482. Purt. i. 85. Syme, E. B. xi. 74. 1737.

Native; pastures, heathy commons, and waysides. Locally abundant. P. May-June.

First record, Baynes, MS., 1832.

1. TAME. Slade Lane, Erdington; lane by Erdington Grange; Sybil Hill, near Kingsbury.
2. BLYTHE. Meadows, near Blythe Bridge, Solihull.
3. ANKER. Baddesley Ensor; Oldbury; Mancetter; Caldecote.
4. AVON. Myton; Chesterton; *Y. and B.* Longbridge, Warwick, *Brom.* Marl Cliff, near Bidford; Bardon Hill, near Binton; road from Stratford to Alcester.
5. LEAM. Between Offchurch and Bascote, 1832, *Baynes, MS.* Near Ufton, on the Warwick Road.

6. SOW. Wroxall, *Brom.* Foleshill ; Meriden.
7. STOUR. Tredington, *Newb.* Barton-on-the-Heath ; Long Compton.
8. ALNE. Alne End, near Great Alne ; Preston Bagot ; Claverdon ; Henley-in-Arden.
9. ARROW. Coughton ; footway to Alne.
10. CHERWELL. Farnborough, near the village ; canal side, Wormleighton ; Ratley, Edge Hill.

**A. pratensis, Linn.**

*Glabrous Oat-grass.*

Top. Bot. 481. Syme, E. B. xi. 75. 1739.

Native ; pastures, roadsides, and banks, in marly soils. Rather rare. P. July. First record, the Author, 1870, Bidford.

2. BLYTHE. Roadside, near Bradnock's Marsh, July, 1882.
4. AVON. Lighthorne ; Tachbrook ; Compton Verney, *Brom.* Gaydon, *Bolton King.* Edge Hill, near Radway ; near the River Dene, Walton Village ; Marl Cliff, near Bidford ; Warwickshire meadows, near Salford Priors ; roadside, between Stratford and Drayton ; pastures, Shotton ; Bardon Hill, near Binton ; Sitchfields, Chesterton, abundant.
7. STOUR. Tredington, *Newb.*
9. ARROW. Oversley Hill, near Oversley Wood.

[\*\**A. strigosa*, Schreb. Casual ; in cornfields. Rare. July. Casual about Myton ; cornfields, near Moreton Morrell, *Brom.* A casual of uncertain occurrence.]

**A. fatua, Linn.**

*Wild Oat.*

Top. Bot. 480. Purst. i. 85. Syme, E. B. xi. 79. 1741.

Colonist ; corn and other cultivated fields. As an aggregate species locally common. A. July-August.

First record, Bree, Cat. New Bot. Guide, 1835. Unlocalised.

Var. *a. pilosissima*, Gray. Rather common.

1. TAME. Long Lane, Sutton, 1868 ; near Over Green, Wishaw ; Curdworth.
2. BLYTHE. Coleshill ; Marston Green ; Shirley.
3. ANKER. Hartshill ; Mancetter.
4. AVON. Whitnash ; Tachbrook, *Y. and B.* Stratford-on-Avon ! *Newb.* Binton ; Rugby ; Alveston.
5. LEAM. Near Birdingbury Railway Station ; near Ufton and Radford Semele.
6. SOW. Binley.
7. STOUR. Lambcote, *Newb.* Little Wolford ; Brailes.
8. ALNE. Alne Hills ; near Lapworth ; Drayton Bushes.
9. ARROW. Wixford ; Exhall ; Sambourn.
10. CHERWELL. Field by Compton Quarry, Avon Dassett.

Var. *b. intermedia* (Lindgr.). Rather rare.

4. AVON. Myton, *Brom.* Oakley, near Stratford-on-Avon ; Binton.
5. LEAM. Harbury, *Brom.* Field by Birdingbury Railway Station ; Itchington Holt ; Ufton.
7. STOUR. Near Tysoe ; near Brailes.
8. ALNE. Alne Hills ; Temple Grafton.
9. ARROW. Spennall Ash.
10. CHERWELL. Field by Compton Quarry, Avon Dassett.

The var. *c. pilosa* seems to be merely a form of var. *b. intermedia*, and is included with that variety in the account of its distribution given above.

**ARRHENATHERUM.** *Beauv.***A. avenaceum**, *Beauv.* *Avena elatior*, L. *False Oat-grass.*Top. Bot. 483. *Purt.* i. 84. Syme, E. B. xi. 81. 1742.

Native; banks, roadsides, pastures, and cultivated land. Common, and generally distributed. P. June to August.

First record, the Author, 1869, Sutton.

Var. *nodosum*, Reichb. Rare, or overlooked.

2. BLYTHE. Earlswood.

4. AVON. Occasionally in marly land about Warwick and Hatton, *Brom.* Near Kineton.

5. LEAM. Near Eathorpe.

6. SOW. Beausale, *Brom.* Abundant near Worsley Bridge; Corley Moor.

7. STOUR. Lower Tysoe; Lower Eatington.

8. ALNE. Yarningale Common, *Brom.* Lapworth Street; Claverdon.

9. ARROW. Arrow Lane; Weethley; Wixford; Broom.

10. CHERWELL. Ratley Edge Hill.

Probably more frequent than as indicated above, but overlooked on account of its slight characteristic differences from type. The onion-like bulbs often abundant in poor soils.

**SIEGLINGIA.** *Bernh.***S. decumbens**, *Bernh.* *Danthonia*, DC. *Triodia*, R. Br. *Festuca*, L. *Heath-grass.*Top. Bot. 483. *Purt.* i. 81. Syme, E. B. xi. 87. 1745.

Native; heaths, heathy waysides, sandy meadows. Local, but widely spread. P. June-July.

First record, Purton, Midland Flora, 1817, *Poa decumbens*, With.

1. TAME. Sutton Park; Middleton Heath; Trickleby Coppice.

2. BLYTHE. Coleshill Heath, over a wide area; meadows near Berkswell Hall; roadsides near Balsall Street; Forshaw Heath.

3. ANKER. Baddesley Common; near Ansley Hall; railway bank, Chilvers Coton.

4. AVON. Gaydon, *Bolton King.* Tachbrook Pastures.5. LEAM. Bishop's Itchington, *Bolton King.*6. SOW. Beausale Common, *Y. and B.* Honiley! Kenilworth Heath! *Brom.* Stoke Heath, near Coventry; Corley Moor.

7. STOUR. Heathland near Great Wolford.

8. ALNE. Haywood! *Y. and B.* Near Umberslade Hall; Yarningale Common; bridle road from Billesley to Wilmcote; Ansty Wood; Wotton Wawen.9. ARROW. Footway from Alcester to Wetherley, *Purt.* i. 81. Coughton Park.**PHRAGMITES.** *Trin.***P. communis**, *Trin.* *Arundo Phragmites*, Linn. *Common Reed.*Top. Bot. 478. *Purt.* i. 78. Syme, E. B. xi. 58. 1727.

Native; river banks, pools, damp shady places. Locally abundant. P. August-September.

First record, the Author, 1867, Olton Pool.

1. TAME. Hill Hook, near Sutton; Plant's Brook Reservoir; near Water Orton railway cutting.
2. BLYTHE. Footway from Marston Green to Elmdon; Olton Pool, 1867; canal bank between Baddesley Clinton and Knowle; near Patrick Bridge, Hampton-in-Arden.
3. ANKER. Near Polesworth; Tamworth; Grendon; Newton Regis; Caldecote.
4. AVON. Near Bilton! near Wolston! *Rugby Sch. Rep.*, 1876. Tachbrook; Warwick; Alveston Pastures; Stratford-on-Avon.
5. LEAM. Banks of Leam, Leamington, &c.; canal from Radford Semele, near Quinton Mills.
6. SOW. Eastern Green, near Coventry! Kenilworth; Combe Abbey grounds.
7. STOUR. Honington! Tredington! *Newb.* Upthorpe Bridge, near Newbold-on-Stour.
8. ALNE. Claverdon; Bishopton.
9. ARROW. Pool near Coughton; Oversley; in the Arrow, near Broom.

### CYNOSURUS. Linn.

**C. cristatus**, Linn. *Crested Dog's-tail Grass.*

Top. Bot. 494. Purt. i. 89. Syme, E. B. xi. 133. 1776.

Native; meadows, pastures, roadsides, &c. Very common, and generally distributed. P. June-July.

First record, Perry, Magazine of Natural History, 1830.

Var. with viviparous spikes by the side of the canal, at Leamington Priors, *Mag. Nat. Hist.* ii. 269. I have seen this on damp, sandy waysides at Water Orton and elsewhere.

### KOELERIA. Pers.

**K. cristata**, Pers. *Crested Hair-grass.*

Top. Bot. 484. Syme, E. B. xi. 88. 1746.

Native; old pastures and grassy waysides, in marly and calcareous soils. Very local. P. June-July.

First record, Kirk, Topographical Botany, 1858.

2. BLYTHE. Footbridge, Bradnock's Marsh, 1882.

4. AVON. Lighthorne, *Miss Palmer*. Tachbrook! *Y. and B.* Gaydon, *Bolton King*. Pastures near Ashorne, *Brom.* Brandon Castle, *Rugby Sch. Rep.*, 1886. Pastures and roadsides, near Chesterton Wood, 1872; Newbold Pacey; Bardon Hill.

5. LEAM. Roadsides near Princethorpe.

7. STOUR. Honington; Tredington, *Newb.*

8. ALNE. Bridle road from Billesley to Wilmcote.

9. ARROW. Marly field near Oversley Wood, 1872.

### MOLINIA. Schrank.

**M. cœrulea**, Moench. *Purple Hair-grass.*

Top. Bot. 486. Purt. i. 75. Syme, E. B. xi. 90. 1747.

Native; bogs, damp woods, and moist heaths. Local. P. August-September.

First record, Purton Midland Flora, 1817, *Melica cœrulea*, L.

1. TAME. Sutton Park ; Trickle Coppice ; Middleton Heath ; Arley Wood.
2. BLYTHE. Coleshill Bog ! *Purt.* i. 75. Coleshill Heath ; Marston Green ; Bradnock's Marsh ; Olton Reservoir ; Bentley Heath, near Solihull ; Forshaw Heath ; Windmill Naps, near Little Ladbroke ; Balsall Common.
3. ANKER. Bentley Park ; Ironstone Wood, Oldbury ; railway bank, near Oldbury.
4. AVON. All Oaks Wood, Cathiron Lane, near Rugby ; Alveston Pastures.
5. LEAM. Frankton Wood, *Rugby Sch. Rep.*, 1868.
6. SOW. Honiley, *Brom.* Rounsel Lane, near Kenilworth ! *Y. and B.*
7. STOUR. Wimpstone Fields, abundant, 1886.
8. ALNE. Haywood.

## CATABROSA. Beauv.

## C. aquatica, Beauv.

Water Whorl-grass.

Top. Bot. 486. *Purt.* i. 74. Syme, E. B. xi. 94. 1750.

Native ; margins of pools, ponds, canals. Rather local. P. May to July.

First record, Withering's Arrangement, 1801, *Aira aquatica*, L.

1. TAME. Edgbaston Pool, *With. Ed.* 4. 138. Sutton Park ; Hill Hook.
2. BLYTHE. Small pool near Solihull Railway Station ; near Brown's Wood and Sharman's Cross, Solihull ; Earlswood Reservoir ; Bradnock's Marsh.
3. ANKER. Near Polesworth ; Tamworth ; Atherstone ; Mancetter ; Shuttington ; Grendon.
4. AVON. Bidford, *Purt.* i. 74. Brook in Baly's Lammas, Warwick, *Per. Fl.* 8. Nicholas Pool, Warwick, *Baynes, MS.* Old canal, near Harborough Magna ! *Cumming.* Pond near Bilton, *Rugby Sch. Rep.*, 1867, Chesterton.
5. LEAM. Canal, near Radford Semele.
6. SOW. Pool at Kenilworth Heath, 1830, *Perry, MS.* Kenilworth, *Y. and B.* Canals, at Longford ; Sow Waste ; Ansty.
7. STOUR. Near Pillerton Priors ; pit, footway from Barton-on-the-Heath to Great Wolford Wood, 1886.
8. ALNE. Canal, near Preston Bagot ; canal, Wilmcote.
9. ARROW. Small pool, Green Hill Green, near Spennall.
10. CHERWELL. Pool near Farnborough.

## MELICA. Linn.

## M. uniflora, Retz.

Wood Melic Grass.

Top. Bot. 485. *Purt.* i. 75. Syme, E. B. xi. 93. 1749.

Native ; woods and shady lanes, in marly soils. Locally abundant. P. May-June.

First record, Purton, Midland Flora, 1817.

1. TAME. Pool Hollies Wood, Sutton Park ; New Park ; Edge Hill and Kingsbury Woods ; lanes about Shustoke ; Hurley ; Arley ; and Fillongley.
2. BLYTHE. Lanes about Maxstoke ; Kenwalsey ; Marston Green ; Berkswell ; Frogmore Wood, Fen End ; Balsall Common ; Solihull ; Packwood.
3. ANKER. Lanes about Oldbury and Mancetter ; Bentley Park ; Hartshill Hayes.
4. AVON. Near Chesford Bridge, Stoneleigh ; Oakley Wood ! *Baynes, MS.* Brandon.

- 6 Sow. Allesley, near Coventry! *Bolton King*. Corley Moor; Hollyberry End; Corley.  
 8. ALNE. Yarningale! *Y. and B.* Little Alne; Shelfield Green; lane near Bush Wood, Lapworth; Baddesley Clinton; Wawen's Moor.  
 9. ARROW. Oversley Lane! *Purt. i.* 75. Lanes about Morton Bagot and Spennall; Green Hill Green; Outhill, near Studley.

DACTYLIS. *Linn.***D. glomerata, Linn.** *Cock's-foot Grass.*

Top. Bot. 494. *Purt. i.* 69. Syme, E. B. xi. 136. 1778.  
 Native; meadows, pastures, roadsides, banks. Very common, and generally distributed. P. June to September.  
 First record, Rugby School Report, 1869.

BRIZA. *Linn.***B. media, Linn.** *Quaking Grass.*

Top. Bot. 494. *Purt. i.* 86. Syme, E. B. xi. 130. 1774.  
 Native; pastures, roadsides, rarely on damp heaths. Rather local. P. June-July.  
 First record, the Author, 1866, Sutton Park.

1. TAME. Sutton Park, on damp heathlands; Hill Hook; roadsides near Penns; Birchley Heath; Water Orton.
2. BLYTHE. Near Knowle; Solihull; Earlswood.
3. ANKER. Hartshill; Newton Regis; Austrey.
4. AVON. Chesterton! *Y. and B.* Near Stratford-on-Avon; Bardon Hill; near Binton Bridges; Newbold-on-Avon.
5. LEAM. Birdingbury; Marton.
6. SOW. Allesley; near Honiley; Baginton.
7. STOUR. Easington; Great Wolford; Wimpstone Fields, &c.
8. ALNE. Henley-in-Arden; Claverdon; Great Alne, &c.
9. ARROW. Ipsley Meadows; Sambourn; Alcester Heath.
10. CHERWELL. Pastures, road from Farnborough to Warmington.

POA. *Linn.***P. annua, Linn.** *Annual Meadow-grass.*

Top. Bot. 491. *Purt. i.* 79. Syme, E. B. xi. 111. 1760.  
 Native; roadsides, walls, heathlands, &c. Very common, and distributed everywhere. A. January to December.  
 First record, Rugby School Report, 1868.

**P. nemoralis, Linn.** *Wood Meadow-grass.*

Top. Bot. 493. *Purt. iii.* 11. Syme, E. B. xi. 122. 1768.  
 Native; woods, copses, marly banks, and wall tops. Locally abundant. P. June-July.  
 First record, Purton, Midland Flora, 1821.

1. TAME. Plentiful in lanes between Shustoke and Arley; lane from Water Orton to Minworth.

2. BLYTHE. Lanes about Maxstoke ; near Sheldon Church ; lane, Stone-bridge to Hampton-in-Arden ; Bradnock's Marsh ; Cornets End ; Henfield, Knowle ; Frogmore Wood, Fenn End.
3. ANKER. Baddesley Ensor ; Stockingford ; Hartshill ; Caldecote ; Grendon.
4. AVON. Between Rugby and Dunchurch, *Baxter, MS.* Woodloes ! Milverton, *Y. and B.* Tachbrook.
5. LEAM. Lillington.
6. SOW. Lanes between Berkswell and Tile Hill ; lanes about Stoke ; Sow ; Wyken and Ansty ; Willenhall ; Worsley Bridge ; Baginton.
8. ALNE. Lane near Wootton Wawen ; Lapworth Street ; Claverdon.
9. ARROW. Bushy bank between Alcester and Arrow, *Purt.* iii. 11. Marly banks near Oversley Wood.

Var. *angustifolia*, Parn. Rare. Woods.

1. TAME. Coppice near Minworth.
8. ALNE. Near High Cross, Pinley Green.
9. ARROW. Wall tops, Oversley Village ; Oversley Wood ; Ragley Wood.

A form with large flowers and leaf sheath half length of leaves, which may be *P. coarctata*, occurs at Baginton. Other forms occur in the county, which are somewhat marked, but, so far as can be seen at present, do not agree with the published descriptions.

***P. compressa*, Linn.**

*Flat-stemmed Meadow-grass.*

Top. Bot. 492. *Purt.* i. 80. Syme, E. B. xi. 125. 1770.

Native ; walls, banks, ruins, and cultivated land. Local. P. July-August. First record, *Baxter, MS.*, 1841.

1. TAME. Old walls, near Fillongley Hall.
2. BLYTHE. Maxstoke Priory Ruins ; cornfields, near Cornets End ; lane, near Meriden Shafts ; Waste Lane, Berkswell ; old walls, Balsall Common.
3. ANKER. Banks, near Oldbury Hall ; old walls, Shuttington.
4. AVON. Lawford Hall, *Baxter, MS.*, about 1841. House tops about Harborough Magna, *Blox., MS.* Chesterton ! Tachbrook, *Y. and B.* Grove Park, near Hatton ; old walls, Warwick ! *Brom.* Lighthorne, *Miss Palmer.* Walls, Marl Cliff ; Bidford and Red Hill, near Alcester ; walls, Stratford-on-Avon ; quarry near Little Lawford ; pastures, Newbold-on-Avon.
5. LEAM. Ufton ! *Brom.* Birdingbury ; Fenny Compton.
7. STOUR. Walls, Long Compton Village, 1886 ; Tysoe.
8. ALNE. Wilmcote ; Bearley ; Great Alne.
9. ARROW. Walls, Oversley ; fields, Spennall Ash.
10. CHERWELL. Walls, Warmington ; Ratley, Edge Hill.

Var. *b. polynoda* (Parn.).

4. AVON. Old walls, Shottery ; Binton.
5. LEAM. Harbury, *Grove.*
6. SOW. Brick Hill Lane, Coventry, *Kirk, Herb. Brit. Mus.*
7. STOUR. Tysoe.
8. ALNE. Railway cutting, near Henley-in-Arden ; old walls, Wootton Wawen.
10. CHERWELL. Old walls, Ratley, Edge Hill, with type.

[\*\**P. sudetica*, Hænke, is abundant and well established in a coppice near Leek Wootton ! (see *Exch. Club Rep.*, 1876), but is merely an alien or casual weed.]

**P. pratensis, Linn.** *Smooth Meadow-grass.*

Top. Bot. 492. Purt. i. 80. Syme, E. B. xi. 127. 1771.

Native; fields, banks, wall tops, &c. Common, and generally distributed. P. May to July.

First record, Rugby School Report, 1868.

Var. *b. angustifolia*, Gaud. Rare.

5. LEAM. Marly banks near Princethorpe.

6. SOW. Lane near Coventry.

8. ALNE. Banks near Wawen's Moor, near Wootton Wawen; Star Lane, Claverdon.

Var. *c. subcaerulea* (Sm.)

On heaths, heathy roadsides, wall tops, &c. More or less frequent throughout the county.

Var. *d. strigosa* (Gaud.) Rare or overlooked.

4. AVON. Old walls near Bidford.

Var. *arida*, Parn. Old walls, Fillongley; railway banks, Knowle, Parn. 74.

**P. trivialis, Linn.** *Rough Meadow-grass..*

Top. Bot. 492. Purt. i. 80. Syme, E. B. xi. 129. 1773.

Native; woods, shady banks, meadows, &c. Common, and generally distributed. P. June-July.

First record, Rugby School Report, 1869.

Var. *β. Koeleri*, DC. Rare.

7. STOUR. Copse near Great Wolford.

8. ALNE. Copse near Kingswood.

**GLYCERIA. Br.****G. fluitans, Brown.** *Festuca fluitans. L. Floating Meadow-grass.*

Top. Bot. 486. Purt. i. 81. Syme, E. B. xi. 96. 1752.

Native; pools, ponds, ditches, streams, canals. Common, and generally distributed. P. June to August.

First record, Rugby School Report, 1868.

**G. plicata, Fries.**

Top. Bot. 487. Syme, E. B. xi. 98. 1753.

Native; ponds, pools, canals. Local, but widely spread. P. June to August.

First record, H. Bromwich, Topographical Botany.

2. BLYTHE. Small pond near Bradnock's Marsh; Baker's Lane, near Knowle; pool near Chessett's Green, Monkspath.

3. ANKER. Pool near Birch Coppice, Polesworth.

4. AVON. Myton! *Brom.*

5. LEAM. Ufton, *Brom.* Canal near Birdingbury Wharf; Marton.

6. SOW. Canal, Sow Waste; pool near Ansty; drain near Brinklow.

7. STOUR. Pit on Wolford Heath, near Great Wolford ; Pillerton Lazer.
8. ALNE. Pool near Lapworth Street ; Kingswood ; Rowington ; field near Lowson Ford.
9. ARROW. Stream near Sambourn ; pit in Arrow Lane.

Var. *b. pedicellata* (Townsend.) Local.

1. TAME. Plant's Brook, near Curdworth ; Water Orton.
2. BLYTHE. Small ponds on Bradnock's Marsh ; near Lowson Ford.
5. LEAM. Stream near Dipper's Bridge, Harbury ; canal side, near Napton Reservoir ; footway, Draycote to Frankton.
6. SOW. Rounsel Lane, *Brom.* Sow Waste Canal ; Corley.
7. STOUR. Honington ! *F. Townsend.* Pillerton Priors.
8. ALNE. Canal, Rowington ; canal, Preston Bagot.
9. ARROW. Stream near Sambourn.
10. CHERWELL. Farnborough Field.

Var. *declinata*, "Breb.," Townsend. Very rare.

6. SOW. Fern Hill, *Brom.*

For valuable remarks on these two varieties see Townsend's "Flora of Hampshire," pp. 416 and 508.

### *G. aquatica*, Sm.      *Water Meadow-grass.*

Top. Bot. 486. Purt. i. 79. Syme, E. B. xi. 100. 1751.  
Native ; rivers, pools, canals. Locally common. P. August-September.  
First record, Perry, MS., 1830. *Poa aquatica*, L.

1. TAME. Near Sutton ; Plant's Brook.
2. BLYTHE. In the Blythe, near Packington ; near Blythe Hall, Coleshill ; Duke's Bridge ; near Stonebridge ; Blythe Bridge, near Solihull ; Olton Reservoir ; canal, near Three Maypoles, Shirley.
3. ANKER. Polesworth ; Alvecote ; Shuttington ; Grendon ; canal, near Atherstone.
4. AVON. West Leys, Rugby, *Baxter, MS.* Kineton, *Bolton King.* Nicholas Pool, Warwick, *Baynes, MS.* Rather frequent in the River Avon from Rugby to Salford Priors ; Bidford ; canal, near Newbold-on-Avon, &c.
5. LEAM. Near Birdingbury Wharf ; near Long Itchington Wharf.
6. SOW. Marsh at Kenilworth Castle, 1830, *Perry, MS.* Canal, Longford ; Sow Waste ; Ansty ; Astley.
7. STOUR. Honington ! *Newb.*
8. ALNE. Frequent in the River Alne, Holywell ; canal, Rowington.
9. ARROW. Frequent in the Arrow ; near Wixford ; near Broom.

[*Glyceria distans*, Wahl., occurs in some abundance on waste ground near Milverton Goods Station, 1890 ! *Brom.* This is growing on allotment ground, in soil used for filling up sand holes, and obtained from the neighbourhood.]

### FESTUCA. Linn.

*F. rigida*, Kunth. *Poa rigida*, Linn. *Sclerochloa rigida*, Link.

Top. Bot. 490. Purt. i. 80. Syme, E. B. xi. 108. 1758.  
Native ; wall tops, roofs, sandy places. Rare. A. May to July.  
First record, Purton, Midland Flora, 1817, *Poa rigida*, Linn.

4. AVON. Lighthorne, *Miss Palmer*. Kineton, *Bolton King*. Brandon Castle; footpath near Newbold Church, *Rugby Sch. Rep.*, 1886. Walls, Abbot's Salford; Binton Church; near Stratford-on-Avon; Edge Hill.
5. LEAM. Ufton! *Y. and B.* Hilly fields, Bascote and Offchurch, *Baynes, MS.* Fenny Compton; Whitnash Pastures; Harbury Village; marly roadsides near Princethorpe.
7. STOUR. Mud-capped walls at Tysoe; Upper Eatington.
8. ALNE. Temple Grafton.
9. ARROW. Wall at Oversley Green Bridge, *Purt.* i. 80. A very robust form at the foot of Oversley Bridge, but not on the walls about there, 1880. Old walls, Exhall, near Wixford.
10. CHERWELL. Stone walls, Farnborough and Avon Dassett; Shotswell, near Warmington.

**F. myurus, Linn.** *F. pseudo-myurus*, Soy.

Top. Bot. 495. Syme, E. B. xi. 141. 1781.

Native; wall tops and sandy roadsides. Rather rare. A. June-July.

First record, Kirk, *Topographical Botany*, 1858.

1. TAME. Slade Lane, Witton; on banks near Erdington.
4. AVON. Emscote, *Brom.*, *Herb. Brit. Mus.* Warwick, old walls, *Herb. Per.* Milverton, *Y. and B.*
5. LEAM. Old walls, Harbury; old walls, Fenny Compton
7. STOUR. Mud-capped walls, Tysoe Village, 1886.
10. CHERWELL. Avon Dasset.

**F. sciuroides, Roth.**

*Barren Fescue-grass.*

Top. Bot. 495. *Purt.* i. 83. Syme, E. B. xi. 142. 1782.

Native; pastures, grassy roadsides. Locally common. A. May-June.

First record, Withering's Arrangement, 1812, *F. bromoides*, L.

1. TAME. Dry pastures near the Mass House, Edgbaston, *With. Ed.* 5. ii. 290. Sutton Park; Middleton Heath; Arley; Hill Hook; Witton.
2. BLYTHE. Coleshill Heath; lanes near Hampton-in-Arden; Solihull; Forshaw Heath.
3. ANKER. Hartshill; Baddesley Common.
4. AVON. Fields towards Newbold and Lawford; Hill Morton, *Baxter, MS.*, 1836.
5. LEAM. Ufton, *Bolton King*.
6. SOW. Kenilworth, Heath, *Perry, MS.*, 1831.
7. STOUR. Honington. *Newb.* Walls, Tysoe.
8. ALNE. Hilly pasture near Great Alne.
9. ARROW. Coughton Court! King's Coughton, *Purt.* i. 83. Coughton, near the Park, 1886; hilly pasture near Morton Bagot; near Oversley.
10. CHERWELL. Wormleighton Reservoir.

**F. ovina, Linn.**

*Sheep's Fescue-grass.*

Top. Bot. 495. *Purt.* ii. 729. Syme, E. B. xi. 144. 1783.

Native; heaths, heathy waysides, woods. Local. P. June-July.

First record, the Author, 1868.

1. TAME. Sutton Park, on the common land near Four Oaks, 1868; Hill Hook; Middleton Heath.

2. BLYTHE. Bannersley Rough ; Coleshill Heath ; Bentley Heath, near Solihull.
3. ANKER. Baddesley Common, abundant.
4. AVON. Lighthorne, *Miss Palmer*. Milverton, *Y. and B.* Burton Dassett, *Brom.*
6. SOW. Kenilworth Heath.
7. STOUR. Armscote, *Newb.* Wolford Heath, near Great Wolford ; White House Enclosure, near Tysoe.
8. AINE. Yarningale Common.

Var. *major*, Reichb. Very local.

1. TAME. Sutton Park.
2. BLYTHE. Coleshill Heath.
4. AVON. Railway bank, Leek Wootton, *H. Bromwich*, confirmed by F. Townsend, *Ex. Club Rep.*, 1885.
8. ALNE. Yarningale Common.
10. CHERWELL. Walls, near Farnborough.

This plant is very near if not identically the same as a specimen I have from Professor Haeckel, which he names *pseudo-ovina* ; it is more robust, with broader leaves, and more lax panicle than the type.

Var. *b. capillata*, Haeck. = *F. tenuifolia*, Sibth.

1. TAME. Hilly pasture near Gravelly Hill Railway Station ; Witton ; very abundant on heaths and in woods at Sutton Park ; Middleton Heath ; near Middleton Hall ; Hill Hook.
2. BLYTHE. Bannersley Rough ; Marston Green ; Balsall Common ; Earlswood ; Forshaw Heath.
3. ANKER. Baddesley Common.
4. AVON. Milverton, *Brom.* Leek Wootton, *Brom.*, *Exch. Club Rep.*, 1887.
6. SOW. Stivichall Common.
7. STOUR. Armscote, *Newb.*

**F. rubra**, Linn. *F. duriuscula*, Sm.

Top. Bot. 495. Purt. iii. 12. Syme, E. B. xi. 145. 1785.

Native ; damp pastures, sandy banks, and roadsides. Common, and generally distributed. P. June-July.

First record, the Author, 1869, *F. duriuscula*, L.

A very variable plant both as to its habit of growth and colour, many of the forms being so distinct as to be at once recognised ; these, I think, deserve better attention than has hitherto been given to them by British botanists. A peculiar glaucous form at Middleton, Shustoke, and other localities having hairy glumes and leaf sheaths.

Var. *longi-aristata*, Haeckel, MS. Very rare.

6. SOW. Waysides, near Combe Abbey, 1880, abundant.
10. CHERWELL. Near Ratley, Edge Hill, 1889.

This was sent to Professor Haeckel in 1882, and was considered by him to be a new variety. I could not find it again near Combe Abbey in 1885, so that possibly it may be only an accidental form. It is noticeable for the very long awns, longer than the flowering glumes ; but I can see no other point of difference by which to distinguish it.

**F. fallax**, Th.

Native ; marly banks. Rare. P. June-July.

First record, the Author, 1883.

1. TAME. Sutton Park ; Witton ; near Moor Hall.
2. BLYTHE. Earlswood Reservoir, 1883 ; canal siding, near Hockley.
3. ANKER. Canal siding, near Atherstone, 1885.
4. AVON. Bardon Hill.
5. LEAM. Stockton Reservoir.
7. STOUR. In cornfields near Crimsote Village.
8. ALNE. Yarningale Common ; canal side, near Lapworth Street.
10. CHERWELL. Near Ratley, Edge Hill.

A glaucous variety like this, but with awnless flowers, at Ratley, Edge Hill. The Earlswood plant was named for me by Professor Haeckel. I think when this plant is better understood it will be found more common than now appears.

**F. arundinacea, Schreb. *F. elatior*, Linn., Sm. Tall Fescue-grass.**

Top. Bot. 497. Purt. i. 82. Syme, E. B. xi. 151. 1789-90.

Native ; roadsides, and near canals. Local. P. June-July.

First record, the Author, 1869, Proceedings of Birm. Natural History Society.

1. TAME. Rare in the Tame district ; near Witton Reservoir.
2. BLYTHE. Near Olton Pool.
3. ANKER. Canal side, near Atherstone.
4. AVON. Little Lawford, *Trott*. Old lime pit at Newbold, *Rugby Sch. Rep.*, 1886. Marl Cliff ; Binton ; Red Hill, near Stratford-on-Avon ; Cathiron Lane, near Rugby.
5. LEAM. Itchington Holt ! *Y. and B. Ufton ! Bolton King*. Offchurch ; Ufton Wood ; Marton ; Birdingbury.
6. SOW. Canal siding, near Brinklow.
7. STOUR. Honington ; Shipston-on-Stour ! *Newb.* Tysoe ; Brailes, &c.
8. ALNE. Canal banks, near Wilmcote ; canal side, near Rowington.
9. ARROW. Near Exhall.
10. CHERWELL. Warmington ; Farnborough.

Two varieties of this species occur in the county, one having smooth leaf sheaths and lax panicle open in flower, closed in fruit, and well represented by plate 1789 of Syme's English Botany ; the other form is exactly represented by plate 1790. In this variety the panicle branches are divaricate in fruit, the leaf sheaths are rougher to the touch, and the lower pale is often awned. This variety was sent to Prof. Haeckel, who pronounced it to be *F. elatior* var. *arundinacea* of his monograph of the genus. For valuable remarks on this plant see Top. Bot. 497.

**F. elatior, Linn. *F. pratensis*, Huds.**

Top. Bot. 497. Purt. i. 82. Syme, E. B. xi. 152. 1791-2.

Native ; waysides, fields, &c. Common. P. June-July.

First localised record, the Author, Flora of Sutton Park, 1876.

This occurs throughout the county, and is very variable, in some forms approaching var. *c. loliacea*, Huds., in more robust forms, *F. arundinacea*, Schreb.

Var. *c. loliacea*, Huds. Rare.

1. TAME. Roadside near Sutton.
2. BLYTHE. Abundant in a meadow by Blythe Bridge, Solihull ; field footway from Coleshill to Maxstoke Castle.
3. ANKER. Fields by Oldbury Hall.
4. AVON. Road from Bilton to Lawford, *Rugby Sch. Rep.*, 1876. Old lime pit at Newbold, 1880.
5. LEAM. Stockton, near the Reservoir.
7. STOUR. Field near Burton-on-the-Heath.

This appears to be a well marked variety, and is often most abundant where it does occur.

**BROMUS.** *Linn.***B. giganteus, Linn.***Tall Brome-grass.*Top. Bot. 498. *Purt. i. 77.* Syme, E. B. xi. 155. 1793.

Native; woods, copses, and shady banks. Locally common. P. July to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Middleton Woods; near Arley Railway Station; lane from Hams Hall to Curdworth Bridge.
2. BLYTHE. Duke's Bridge, near Coleshill; Olton Pool; Shelly Lane, near Solihull; wood near Berkswell Hall; woods near Earlswood.
3. ANKER. Bentley Park; Shuttington; Hartshill Hayes; Caldecote Wood.
4. AVON. Tachbrook! *Y. and B.* Woods, Edge Hill; Alveston Pastures Wood; Stoneleigh; Oakley Wood.
5. LEAM. Cubbington Wood; Marton; Offchurch; Birdingbury; Ufton.
6. SOW. Combe Woods.
7. STOUR. Honington; Tredington; Shipston-on-Stour, *Newb.*
8. ALNE. Coppice in Quarry Lane, Rowington; in several of the lanes from Lapworth to Kingswood; Stooper's Wood near Wootton Wawen; Bearley and Snitterfield Bushes; Great Alne.
9. ARROW. Wixford Lane, *Purt. i. 77.* Oversley Wood.
10. CHERWELL. Avon Dassett.

**B. asper, Murr.***Rough Brome-grass.*Top. Bot. 498. *Purt. i. 76.* Syme, E. B. xi. 156. 1795.

Native; hedge banks and bushy places. Common, and generally distributed. P. July-August.

First record, the Author, Sutton, 1866.

**B. erectus, Huds.***Upright Brome-grass.*

Top. Bot. 499. Syme, E. B. xi. 159. 1796.

Native; roadsides and field borders. Locally abundant. P. July.

First record, the Author, 1869, *Proc., Birm. Nat. Hist. Society.*

4. AVON. Chesterton Hill, *Y. and B.* Canal bank, Newbold-on-Avon! *Rugby Sch. Rep.*, 1886. Near Edge Hill; Compton Verney; Kineton; Red Hill; Binton.
5. LEAM. Canal siding near Napton-on-the-Hill; Ufton Hill.
7. STOUR. Honington, Tredington, *Newb.* Wimpstone; Atherstone-on-Stour; near Upper Easington; Barton-on-the-Heath; Long Compton.
8. ALNE. Rowington, canal bank; bridle road, Wilmcote to Billesley; Drayton Rough Moors; Great Alne.
9. ARROW. Studley, near Railway Station; Oversley, near the Mill; Wixford; Exhall.
10. CHERWELL. Wormleighton Canal; Ratley, Edge Hill; Avon Dassett.

*Var. b. villosus, Bab.* Rare.

4. AVON. Near Chesterton Wood, *Brom.* Near Chadshunt.
5. LEAM. Near Birdingbury Wharf.
7. STOUR. Near Wolford Wood, 1887.

The Chesterton plant was sent to the Exchange Club by Mr. Bromwich, and Prof. Haeckel makes the following comments on the specimens:—"The spikelets being shortly hairy, I doubt whether this be the form so-called by Babington.

Surely it is not *B. erectus* v. *villosus*, Doell., Flora d. Grossherz, Baden (which perhaps precedes Babington). If you choose to give a proper name to it, I should call it *B. erectus* v. *subvillosus*, Regel et Tilling, Fl. Ajan. p. 126, 1858."—*Exchange Club Rep.*, 1887, page 194.

**B. sterilis, Linn.***Barren Brome-grass.*

Top. Bot. 498. Purt. i. 76. Syme, E. B. xi. 163. 1799.

Native; banks, roadsides, and pastures. Rather common throughout the county. A. June-July.

First record, the Author, 1866.

[\*\**B. maximus*, Desf. Occurs as a rare casual in the skin yards at Kenilworth! *Brom.*]

**B. secalinus, Linn.***Rye Brome-grass.*

Top. Bot. 499. Purt. iii. 10. Syme, E. B. xi. 165. 1800.

Colonist; cultivated fields, roadsides, and railway banks. Local, but widely spread. A. or B. July to September.

First record, Ray, Catalogus, 1670. *Festuca graminea glumis hirsutis*, C. B.

1. TAME. Upon Dorsthill (Dosthill), not far from Tamworth, Ray, Cat. 112. Near Over Whitacre; the Grange grounds, Erdington.

2. BLYTHE. Coleshill Heath; Bassett's Green, near Berkswell; Earlswood.

3. ANKER. Railway bank, Weddington; Mancetter.

4. AVON. Moreton Morrell, Y. and B. Bevington Waste, near Salford Priors; Binton; near Stratford-on-Avon; pasture, near Newbold-on-Avon.

5. LEAM. Napton Holt; Ufton.

6. SOW. Rickyard, Kenilworth.

7. STOUR. Near Eatington Park; Pillerton; near Traitor's Ford.

8. ALNE. Bridle road from Wilmcote to Billesley.

9. ARROW. Beauchamp's Court; Coughton, Purt. iii. 10. Oversley, near the wood; Sambourn; near Exhall.

10. CHERWELL. Wormleighton Reservoir.

Var. *b. velutinus* (Schrad.) Rare. Syme, E. B. xi. 166. 1801.

4. AVON. In a quarry near Binton Bridges; Bardon Hill, near Stratford-on-Avon.

7. STOUR. Near Halford, *Newb.* !

**B. racemosus, Linn.***Racemose Brome-grass.*

Syme, E. B. xi. 167. 1803.

Native; meadows, pastures, and roadsides. Local, but widely spread. June-July.

First record, Perry, MS., 1829.

1. TAME. Holifast Grange Farm, Erdington.

2. BLYTHE. Pasture, near Sheldon Church; in a sandy piece, near Marston Green; meadow, near Elmdon; meadow, near Baulk Lane, Berkswell.

3. ANKER. Pasture, near Mancetter.

4. AVON. Hatton Farm, Hampton Lucy, 1829, Perry, MS. On the new embankment, near Brownsover, *Blox.*, N. B. G. S., 1837. Lighthorne, *Miss Palmer*. Bilton and Newbould, *Rugby Sch. Rep.*, 1886. Bevington Waste; Salford Priors; Binton; Red Hill; near Pillerton Priors.

6. SOW. Hopsford, near Ansty; Corley Village.
7. STOUR. Honington; Tredington. *Newb.* Lower Eatington; Great Wolford.
8. ALNE. Wawen's Moor, near Wootton Wawen; Great Alne; pastures, near Preston Bagot; Claverdon.
9. ARROW. Lane, near Exhall; pastures and fields, near Sambourn.
10. CHERWELL. Pastures, bridle road from Farnborough to Warmington; Wormleighton.

**B. commutatus, Schrad.***Confused Brome-grass.*

Top. Bot. 500. Syme, E. B. xi. 168. 1802.

Native; pastures, meadows, roadsides. Local. B. June-July.

First record, Bloxam, Specimen, Topographical Botany.

2. BLYTHE. Meadows by Blythe Bridge, Solihull; Earlswood Reservoir.
4. AVON. Near Rugby, *Rugby Sch. Rep.*, 1886. Gaydon, *Bolton King*. Radway, near Edge Hill; Ashborne; Old Park, Warwick; Binton Bridges; Bardon Hill; Red Hill; roadsides between Brandon and Brinklow.
5. LEAM. Birdingbury! *Rugby Sch. Rep.*, 1886. Itchington Holt; Ufton, near the village.
6. SOW. Hopsford, near Ansty.
7. STOUR. Honington Park; Tredington, *Newb.* Fields, near Great Wolford.
8. ALNE. Rowington; Preston Bagot; meadows, near Lapworth Street.
9. ARROW. Fields near Studley Railway Station.
10. CHERWELL. Wormleighton Reservoir.

Var. *c. pubescens*, Lond. Cat. Very rare.

4. AVON. Near Bardon Hill; Stratford-on-Avon; near Red Hill.
10. CHERWELL. Dam of Wormleighton Reservoir.

The three foregoing grasses are often difficult to discriminate; all my specimens, however, have been carefully compared with typical specimens given to me by the late Mr. Hewett C. Watson. *B. racemosus* and *B. commutatus* seem to be varieties of the same species.

Var. *c. multiflorus* (Parn.) Very rare.

7. STOUR. Near the Railway Station, Eatington; banks near Wimpstone.
8. ALNE. Roadsides and in cultivated fields near Drayton Bushes; abundant in 1870.
10. CHERWELL. Abundant on the dam of Wormleighton Reservoir.

This is a marked variety midway between *B. commutatus* and *B. mollis*. Prof. Babington considered my specimens to belong to this variety.

**B. mollis, Linn.***Soft Brome-grass.*

Top. Bot. 501. Part. i. 77. Syme, E. B. xi. 169. 1804.

Native; banks, roadsides, pastures, &amp;c. Very common, and generally distributed. A. June to August.

First record, the Author, 1869.

The var. *b. glabrescens*, Coss., occurs frequently with the type, more especially on sandy banks, railway banks, and sandy roadsides.

[\*\**Ceratochloa unioides*, DC. Mr. Bromwich finds this occasionally near the skin yards, Kenilworth, introduced with foreign skins.]

## BRACHYPODIUM. Beauv.

**B. sylvaticum**, R. and S. *False Wood Brome-grass.*

Top. Bot. 501. Purst. i. 84. Syme, E. B. xi. 173. 1807.

Native; hedge banks and woods. Common, and generally distributed. P. July-August.

First record, Purton, Midland Flora, 1817, *Festuca sylvatica*, Huds. Kinwarton, Grafton.

**B. pinnatum**, Beauv. *Barren False Brome-grass.*

Top. Bot. 501. Purst. i. 83. Syme, E. B. xi. 175. 1808.

Native; banks, roadsides, and field borders, in calcareous soils. Rare and local. P. July-August.

First record, Purton, Midland Flora, 1817, *Festuca pinnata*, Huds.

4. AVON. Near Chesterton! Binton! Y. and B. Kineton; Compton Verney; near Alveston Pastures; Pillerton; Red Hill.

5. LEAM. Roadside between Birdingbury and the Wharf, *Rugby Sch. Rep.*, 1886. Birdingbury; Napton-on-the-Hill.

7. STOUR. Honington, near Wayland Coppice; Lambcote, *Newb.* Wolford Heath, near Great Wolford; Brailes, and road to Shipston-on-Stour; Upper Eatington; White House; Wimpstone Fields; Whatcote; Fullready.

8. ALNE. Grafton! Great Alne, *Purst.* i. 83. Temple Grafton; Drayton Rough Moors; bridle road from Billesley to Wilmcote; lane from Wilmcote to Snitterfield.

9. ARROW. Morton Bagot; Wixford; Exhall.

Var. *b. pubescens*, Syme. Very rare.

4. AVON. Near Moreton Morrell, *Brom.* Roadsides near Kineton; Steeple Hill and Marl Cliff, near Bidford.

## LOLIUM. Linn.

**L. perenne**, Linn. *Rye-grass.*

Top. Bot. 504. Purst. i. 87. Syme, E. B. xi. 185. 1814.

Native; meadows, pastures, banks, roadsides. Very common, and generally distributed. P. June-July.

First record, Rugby School Report, 1869.

Var. *c. multiflorum* (Lam.) Rare casual.

1. TAME. Railway siding, Sutton Coldfield Railway Station.

Var. *d. aristatum*, Schum. Ufton, *H. Brom.*

Var. *x. festucaceum* (Link.) Rare.

3. ANKER. Canal side near Atherstone, in some abundance.

This appears distinct from *Festuca loliacea*, Huds.

Var. *e. italicum* (Braun.) *Italian Rye-grass.*

Syme, E. B. xi. 186. 1815. Local.

1. TAME. Railway banks between Castle Bromwich and Sutton Coldfield; Gravelly Hill; roadsides near Shustoke.

2. BLYTHE. Roadsides near Solihull; Berkswell Hall; Earlswood.
3. ANKER. Rye Hills, near Tamworth; Mancetter.
4. AVON. Plentifully near Stratford-on-Avon: Alveston Heath; railway cutting, Salford Priors.
7. STOUR. Honington; Tredington (escape), *Newb.* Near Shipston-on-Stour.
9. ARROW. Railway cutting, Alcester; fields near Irons Cross.
10. CHERWELL. Footway, Wormleighton to Farnborough.

Apparently well established in many of the districts, but probably always a mere straggler from cultivation.

**L. temulentum, Linn.**

*Darnel.*

Syme, E. B. xi. 187. 1816.

Casual; rickyards and waste places. Very rare. A. June-July.

First record, H. Bromwich, 1870.

6. SOW. Waste place near Kenilworth, *Brom.* Rickyard at Kenilworth, abundant.

Var. *b. arvense* (With.). Rare.

6. SOW. Waste place near Kenilworth, *Brom.* Rickyard at Kenilworth.

**AGROPYRON. Beauv.**

**A. caninum, Beauv. *Triticum caninum*, Huds. *Wood Couch-grass.***

Top. Bot. 502. Pursh i. 89. Syme, E. B. xi. 176. 1809.

Native; hedge banks and bushy places. Local. P. July.

First record, Miss C. E. Palmer, 1853.

1. TAME. Waterworks grounds, Witton Lane; Wylde Green, near Sutton, 1867; coppice near Plant's Brook.
2. BLYTHE. Lane by Chelmsley Wood; canal bank near Olton Pool; Elmdon; Kenwalsey; bank near Patrick Bridge, Hampton-in-Arden; Shelly Lane, near Shirley Street.
3. ANKER. Parley Park; Amington; Attlebury Fields; Weddington.
4. AVON. Myton, *Y. and B.* Emscote; Milverton, *Brom.* Lighthorne, *Miss Palmer*, 1853. Barby Road, near Rugby, *Rugby Sch. Rep.*, 1876. Lane, Edge Hill to Radway; Marl Cliff, near Bidford; Chesterton Wood; road from Rugby Mill to Newbold-on-Avon.
5. LEAM. Whitnash, *Y. and B.* Ufton.
6. SOW. Worseley Bridge, near Stoneleigh.
7. STOUR. Honington Park! *Newb.* Near Shipston-on-Stour; abundant near Ilmington; Whatcote.
8. ALNE. Near Lowson Ford; near Tanworth.
9. ARROW. Salford, by bridge over the Arrow; banks of Arrow, Kingley; Ipsley.
10. CHERWELL. Farnborough; Warmington.

**A. repens, Linn.**

*Common Couch-grass.*

Top. Bot. 502. Pursh i. 89. Syme, E. B. xi. 178. 1810.

Native; hedges, roadsides, and bushy places. Common, and generally distributed. P. July-August.

First record, Baxter. *Triticum repens.* Near the West Leys at Rugby, *Ph. Bot.*, 1837.

Var. *b. barbatum*, Duval-Jouve. Local.

3. ANKER. Near Shuttington Bridge.
  5. LEAM. Napton Holt.
  7. STOUR. Eatington.
  8. ALNE. Near Drayton Rough Moors.
  9. ARROW. Lane from Sambourn to Studley Railway Station; Salford Bridge; Arrow Lane; Dunnington.
  10. CHERWELL. Spinny, by Wormleighton Reservoir; Warmington.
- c. obtusum*, Syme. Local. Myton, *Brom.* With branched inflorescence, Alveston Heath; near Offchurch; lane from Willenhall to Baginton; Arrow Lane; Wormleighton; Compton Wharf, &c.

### NARDUS. Linn.

*N. stricta*, Linn. *Mat-grass.*

Top. Bot. 507. *Purt.* i. 66. Syme, E. B. xi. 197. 1824.  
Native; damp heaths and heathy roadsides. Rare, and local. P. May to July.  
First record, Withering's Arrangement, 1787.

1. TAME. Birmingham Heath. *With. Ed.* 2. 52. Sutton Coldfield! *Ick, Anal.*, 1837. Middleton Heath; Hill Hook.
2. BLYTHE. Coleshill Heath, *Sm., Per. Fl.* 7. Coleshill Pool; Marston Green; pasture by Olton Pool; pasture by Blythe Bridge, Solihull; abundant on Forshaw Heath, near Earlswood; Balsall Common.
3. ANKER. Baxterley and Baddesley Commons.
6. SOW. Haseley Common; Wroxall Common, 1833, *Baynes, MS.* Kenilworth Heath! *Brom.* Corley Moor.
7. STOUR. Abundant, Wolford Heath, near Great Wolford.
8. ALNE. Yarningale Common,
9. ARROW. Grows in plenty on Studley Common, *Purt.* i. 66. Hilly pasture, near Morton Bagot.

### HORDEUM. Linn.

*H. pratense*, Huds. *Meadow Barley.*

Top. Bot. 505. *Purt.* i. 88. Syme, E. B. xi. 193. 1821.  
Native; pastures, grassy roadsides. Locally abundant. P. July-August.  
First record, Bree, New Botanist's Guide, 1835. Unlocalised.

1. TAME. Pastures near Curdworth.
2. BLYTHE. Pastures near Stonebridge; meadows near Blythe Bridge, Solihull; Bradnock's Marsh.
3. ANKER. Bole Hall, Tamworth; Austrey; Newton Regis; Atherstone; Bedworth.
4. AVON. Lighthorne, *Miss Palmer.* Holbrook Park, *Rugby Sch. Rep.*, 1876. Pastures near Kineton; Moreton Morrell; Alveston; Stratford-on-Avon; Salford Priors.
5. LEAM. Bishop's Itchington! *Y. and B.* Birdingbury; Shuckburgh; Willoughby; Ufton.
6. SOW. Combe Fields.
7. STOUR. Honington; Tredington, *Newb.* Abundant on the road from Oxhill to Brailes.
8. ALNE. Henley-in-Arden; Great Alne; Wilmcote; Billesley.

9. ARROW. Oversley ; Wixford ; Exhall ; Broom.  
10. CHERWELL. Near Ratley, Edge Hill ; Farnborough.

**H. murinum**, Linn.

*Wall Barley.*

Top. Bot. 506. Pursh. i. 88. Syme, E. B. xi. 194. 1822.

Native ; dry banks and roadsides, especially near towns and villages. Locally common. P. June to August. Local and rare in districts 1 and 2, but more or less abundant in all the other districts.

First record, Baxter, MS., 1842. near Rugby.

## ACOTYLEDONES, OR CRYPTOGAMEÆ.

## ORD. LXXXIII. FILICES.

## PTERIS. Linn.

**P. aquilina**, Linn. *Brake, or Bracken.*

Top. Bot. 520. Purst. ii. 503. Syme, E. B. xii. 145. 1886.

Native; heaths, hedge banks, and woods. Common, and generally distributed.  
P. June-July.First record, Ray, *Historia Plantarum*, 1686. *Filix femina*, Ger. Unlocalised.

## LOMARIA. Desv.

**L. Spicant**, Desv. *Blechnum boreale*, Linn. *Hard Fern.*

Top. Bot. 520. Syme, E. B. xii. 143. 1885.

Native; woods, damp banks. Rare. P. July.

First record, Withering's Arrangement, 1801, *Blechnum Spicant*, Roth.

1. TAME. In lanes about Aston Park, *With. Ed.* 4, 750, extinct. Sutton Park; Trickle Coppice, and other woods about Middleton.
2. BLYTHE. Ditch near Packington, *Sm., Per. Fl.* 85. Coleshill Bog! *Ick. Anal.*, 1837. Lane to Bannersley Pool. *Murcott.* Coleshill Heath; Marston Green; woods near Solihull; Olton Reservoir; Monkspath, near Shirley; Windmill Naps, Little Ladbroke.
4. AVON. Near Wolston Heath, *Trott, Rugby Sch. Rep.*, 1874. Hedge of Line's Spinny (near Rugby), *Rugby Sch. Rep.*, 1889.
6. SOW. Heathy places on Honiley Common, *Baynes.* Haseley Common, *Perry, Phyt.* i. 510. Stoke Heath Woods, *Kirk, Phyt.* ii. 810. Fern Hill! *Y. and B.*
8. ALNE. Very fine and abundant, Haywood; Alderhanger, near Tanworth, abundant.
9. ARROW. Wire Hill Wood, Sambourn.

## ASPLENIUM. Linn.

**A. Adiantum-nigrum**, Linn. *Black Spleenwort.*

Top. Bot. 519. Purst. ii. 512. Syme, E. B. xii. 121. 1874.

Native; old walls and dry shady banks. Rare. P. April to October.

First record, Purton, Midland Flora, 1817.

2. BLYTHE. Maxstoke Priory, *J. S. Baly*. Meriden; Balsall, *Bree*. Fen End, Temple Balsall, *Perry*, *Phyt.* i. 511. In a lane near Berkswell; lane between Meriden and Hollyberry End, *Kirk*, *Phyt.* ii. 810. Little Packington, *Miss Palmer*. Marly banks near Knowle; Damson Lane, Solihull.
4. AVON. Stone quarry, Coton End, Warwick; on Emscote Bridge, *Per. Fl.* 84. Rocky bank below Milverton, *Baynes*. Between Hampton-on-the-Hill and Norton Lindsay, *Perry*. Norton Hill, *Baly*, *Phyt.* i. 511. In a ditch near the Blue Boar; on old walls near Little Lawford Mill, *Rugby Sch. Rep.*, 1876.
6. SOW. Common in the parish of Corley; Allesley, *Bree*, *Phyt.* i. 511. Kenilworth Castle, *Per. Fl.* 84. On a bridge at Binley, *Kirk*, *Phyt.* ii. 809.
8. ALNE. On a bank near Henley; on the church at Henley, *Murcott*, *Phyt.* i. 511. Oldwalls, Haselor Village; old bridge, Henley-in-Arden.
9. ARROW. Sambourn; Middletown; Oversley, *Purt.* ii. 512.
10. CHERWELL. Farnborough! *Beesley*, *MS.*, plentiful in 1889.

This fern would be found in very few of the above localities now, having been exterminated partly by cultivation, but more truly by cultivators who collect unmercifully.

**A. Trichomanes**, *Linn.* *Common Spleenwort.*

Top. Bot. 518. *Purt.* ii. 513. Syme, E. B. xii. 131. 1878.  
Native; walls, bridges, and ruins. Rare. P. July to October.  
First record, Purton, Midland Flora, 1817.

2. BLYTHE. Elmdon Hall, near Hockley (Bickenhill), *W. Southall*, *Phyt.* i. 511. Maxstoke Priory; walls, Coleshill; bridge over River Cole, near Coleshill; near Knowle Village; railway bridge near Solihull.
3. ANKER. Old bridge near Mancetter.
4. AVON. On a bridge near Stoneleigh Abbey, *Baynes*. Stoneleigh, *Bree*. Church porch, Stratford-on-Avon, *Perry*, *Phyt.* i. 511. Newbold, *Rugby Sch. Rep.*, 1880. Bridge over the Avon, Stratford-on-Avon, *J. Humphreys*.
6. SOW. Walls at Kenilworth Castle, *Per. Fl.* 84. Allesley, *Bree*, *Phyt.* i. 511.
9. ARROW. On Coughton Church; Walcot, *Purt.* ii. 514.

**A. Ruta-muraria**, *Linn.* *Rue-leaved Spleenwort.*

Top. Bot. 519. *Purt.* ii. 512. Syme, E. B. xii. 135. 1880.  
Native; walls, bridges, and ruins. Rare and local. P. June to October.  
First record, Purton, Midland Flora, 1817.

1. TAME. Aston Park wall! *Ich, Anal.*, 1837, extinct in this locality; old walls about Dosthill; near Curdworth Bridge; Water Orton Bridge; bridge near Castle Bromwich.
2. BLYTHE. Bickenhill Church! Maxstoke Castle! *Bree*, *Phyt.* i. 511. Bridge at Elmdon.
3. ANKER. Ruins of Nuneaton Abbey! *Kirk*, *Phyt.* ii. 810. Old walls, Ansley; old walls, Mancetter, abundant, 1885; old walls, Wilmcote, near Tamworth; Bole Bridge; Chilvers Coton.
4. AVON. Tachbrook Church, *Per. Fl.* 84. St. Mary's Churchyard wall, Warwick, *Perry*. Stoneleigh, *Bree*. Vicarage and Priory walls, Warwick, *Baly*, *Phyt.* i. 511. On wall of park at Watford, *Cumming*, *Rugby Sch. Rep.*, 1874. Barn near Bilton, *Rugby Sch. Rep.*, 1886.
5. LEAM. Southam Church! *Baynes*.

6. SOW. Kenilworth Church, *Per. Fl.* 84. Allesley, *Bree*. Coventry Town Wall, *Baly*, *Phyt.* i. 511.
7. STOUR. Bridge over the Stour, Atherstone-on-Stour.
8. ALNE. Walcot; church porch, Great Alne, *Purt.* ii. 513. Bridge near Shrewley Canal Tunnel; walls, Wootton Wawen, abundantly.
9. ARROW. Wixford, *Purt.* ii. 513.
10. CHERWELL. Farnborough, old stone walls.

**ATHYRIUM.** *Roth.*

**A. Filix-fœmina,** *Roth.* *Lady Fern.*

Top. Bot. 517. *Purt.* iii. 79. Syme, E. B. xii. 108. 1869.  
Native; streams, ditches, damp woods, and other damp places. Local. P.  
June to September.  
First record, Bree, Midland Flora, 1821.

1. TAME. Sutton Park; Middleton Heath; Trickle Coppe; New Park, Middleton; Middleton Park.
2. BLYTHE. Coleshill, *Bree*, *Purt.* iii. 79. Bannersley Common! and Wood! moist bank near to Stonebridge! *Murcott.* Lane leading to Bannersley Pool, *Murcott*, *Phyt.* i. 511. Marston Green; near Knowle and Solihull; Poors Wood; Blackhill Wood, Honiley.
3. ANKER. Bentley Park; Birch Coppe, Polesworth.
4. AVON. Between Leamington and Kenilworth! *Baynes.* On the porch of the church, Stratford-on-Avon, *Perry*, *Phyt.* i. 511.
6. SOW. Allesley! *Bree in Purt.* iii. 79.
7. STOUR. Wolford Wood.
8. ALNE. Haywood; near Yarningale; near Henley-in-Arden.
9. ARROW. Oversley Wood, abundant 1874; Wire Hill, Sambourn.
10. CHERWELL. Farnborough; Farnborough Fox Cover.

*Var. b. erectum*, Syme. (*Var. rhaticum*, Roth.) Syme, E. B. xii. 109.

1. TAME. The red-stemmed variety is abundant in a lane near Sutton Park, *Cameron*, *Phyt.* i. 510. Sutton Park, abundant formerly; near Ash-furlong House, near Sutton; Trickle Coppe and New Park, Middleton.
2. BLYTHE. Butler's Wood, Maxstoke; Marston Green; Meriden Shafts; Blackhill Wood, Honiley.
3. ANKER. Deer Park, Arbury! *Kirk*, *Phyt.* ii. 809. Hartshill Hayes; Bentley Park; Birch Coppe, Polesworth.
6. SOW. Boggy places, near Binley; Stoke Heath, *Kirk*, *Phyt.* ii. 809. Fern Hill! *Y. and B.*
7. STOUR. Wolford Wood.
8. ALNE. Haywood.
10. CHERWELL. Farnborough Fox Cover.

*Var. molle*, Roth. Very rare.

3. ANKER. Arbury Deer Park, *Kirk*, *Phyt.* ii. 809.
8. ALNE. Haywood.

\**Var. incisum.* Crackley Wood, *Y. and B.*, is I think, a mistake.

**CETERACH.** *Willd.*

**C. officinarum,** *Willd.* *Scaly Spleenwort.*

Top. Bot. 508. *Purt.* ii. 516. Syme, E. B. xii. 139. 1883.  
Alien? old walls near gardens. Rare. P. May.  
First record, Purton, Midland Flora, 1817, *Scolopendrium Ceterach*, Symons.

### 318 CETERACH.—SCOLOPENDRIUM.—CYSTOPTERIS.—POLYSTICHUM.

3. ANKER. Old walls near Atherstone, *G. Harris!*
4. AVON. On a brick wall at the back of the Mansion House at Tachbrook, *Perry, Phyt. i. 511.* Mr. Waller's garden wall at Tachbrook, *Murcott, Phyt. i. 511.* On a horse block at Birbury Hall, 1852-60, *Miss Palmer.*
5. LEAM. Old wall near Birdingbury Hall, *Brom.*
6. SOW. Wall of the Lancastrian Yard, Coventry, *Kirk, Phyt. ii. 809.*
8. ALNE. Walcot, in Haselor parish, *Purt. ii. 516.*

#### SCOLOPENDRIUM. *Smith.*

**S. vulgare, Symons.** *Hart's-tongue Fern.*

Top. Bot. 520. *Purt. ii. 515.* Syme, E. B. xii. 141. 1884.

Native; damp, shady, and marly banks, rarely on old walls. Rare. P. June to August.

First record, *Perry, Plantæ Selectæ, 1820.*

1. TAME. In a well at Over Whitacre, 1888-90, *Grove.*
2. BLYTHE. Knowle! *Southall.* Damp shady places near Elmdon, *Cameron.* Boggy ground near Solihull, *ick, Phyt. i. 511.* Damp banks near Marston Green, 1870; near Hampton-in-Arden; railway bridge near Knowle Station.
3. ANKER. On a wall near Merivale Park, *Mrs. J. Mayou.*
4. AVON. In a ditch by the side of the footpath from Warwick to Hampton-on-the-Hill, *Per. Fl. 85.* Plentiful at Hatton Rock, near Stratford; bank of a pool at the Woodloes; roadside between Budbrook and Hampton, *Murcott.* Luxuriant at Tachbrook, *Baly, Phyt. i. 511.* Lighthorne Village, *Brom.* In a well in the spinny by the Lime Works, beyond Little Lawford, *Rugby Sch. Rep., 1889.* Hedge bank, near Bretford, 1884.
5. LEAM. In Princethorpe Village, *Blox., MS.*
6. SOW. Kenilworth, near the ruins of the castle, *Murcott.* Forked variety at Kenilworth Castle, *Baly, Phyt. i. 511.*
7. STOUR. Old kitchen garden wall, Honington.
8. ALNE. On marly damp banks near Claverdon; near Holywell.

Formerly abundant in many of these localities, but now eradicated in most if not all of them.

#### CYSTOPTERIS. *Bernh.*

**C. fragilis, Bernh.** *Brittle Bladder Fern.*

Top. Bot. 511. Syme, E. B. xii. 101. 1864.

Alien; old walls. Very rare. P. June to August.

First record, *Cameron, Phytologist, 1843.*

4. AVON. Guy's Cliff, near Warwick! *T. F. Foster, jun., Herb. Brit. Mus.* Compton Verney, near Stratford-on-Avon (G. Cook), *Cameron, Phyt. i. 510.*

Probably in each of the instances given above a mere straggler from cultivation.

#### POLYSTICHUM. *Roth.*

**P. lobatum, Presl.** Var. *a. genuinum, Syme.* *Prickly Shield Fern.*

Top. Bot. 513. *Purt. ii. 509.* Syme, E. B. xii. 92, 1860.

Native; hedge banks. Local, and rare. P. June to September.

First record, *Purton, Midland Flora, 1817.*

1. TAME. Saltley, *Ick, Anal.*, 1837. Near Castle Bromwich, *Cameron*. Four Oaks, near Sutton; Middleton Heath; lanes near Shustoke: Arley; lanes near Islington.
2. BLYTHE. Near Maxstoke, *Luxford, Phyt.* i. 510. In a lane leading from Fen End to Temple Balsall, *Perry, MS.* Near Packington, *Sm., Per. Fl.* Elmdon, *Cameron, Phyt.* i. 510.
3. ANKER. Near Baddesley Ensor; near Polesworth.
4. AVON. On the road from Warwick to Henley, *Murcott, Phyt.* i. 510. Near Chesford Bridge; in a copse at Emscote, *Perry, MS.* Hampton-on-the-Hill, *Brom. Stoneleigh, Kirk, Phyt.* ii. 809. About Warwick, *Per. Fl.* 83.
5. LEAM. Thicket between Hunningham and Offchurch, *Murcott, Phyt.* i. 510.
6. SOW. Hollyberry End! Wyken Lane, *Kirk, Phyt.* ii. 809. Allesley, *Baly, Phyt.* i. 510.
8. ALNE. Pinley! *Y. and B.* Near Kingswood; lanes near Claverdon.
9. ARROW. In a wet lane at Studley; Sambourn; Oversley; Wetherly Lane, *Purt.* ii. 509. Morton Bagot; Sperrall.

Var. *b. aculeatum*, Syme.

First record, Withering's Arrangement, 1801, *Polypodium aculeatum*, Linn.

1. TAME. Abundant, borders of New Park, Middleton; Middleton Heath; banks near Nether Whitacre; Shustoke; Islington, near Kingsbury; banks near Arley and Fillongley.
2. BLYTHE. In a ditch at Elmdon, *With. Ed.* 4. 761. Near Maxstoke; near Meriden Shafts; banks near Solihull and Knowle.
3. ANKER. Baddesley Ensor; banks near Hartshill; Gully Common, near Nuneaton; near Polesworth.
4. AVON. Blue Boar Lane; roadside between Lawford and Little Lawford Mill, *Rugby Sch. Rep.*, 1876.
6. SOW. Hollyberry End.
8. ALNE. Pinley; Rowington, *Y. and B.* Dilke's Lane, near Kingswood; Lapworth; Holywell; Claverdon.

Var. *lonchitidioides*.

4. AVON. Near Stoneleigh, *Kirk, Phyt.* ii. 809. Near Hatton! *Brom.*
6. SOW. Meriden, *Kirk, Phyt.* i. 809.

The plant recorded by Mr. Bromwich from Hatton I have seen growing. It is merely a state of *P. lobatum*. Probably Kirk's plant was also merely a state of the same variety.

### **P. angulare, Willd.**

*Angular-lobed Shield Fern.*

Top. Bot. 514. Syme, E. B. xii. 95. 1861.

Native; hedge banks. Local. P. June to September.

First record, *Cameron, Phytologist*, 1843.

1. TAME. Near Castle Bromwich, *Cameron, Phyt.* i. 510. Middleton Heath; near Fillongley.
2. BLYTHE. Elmdon! *Cameron, Phyt.* i. 510. Near Meriden Shafts; near Maxstoke; Bentley Heath, near Solihull.
3. ANKER. Near Polesworth, *Mrs. J. Mayou.*
4. AVON. Rare, near Warwick, *Perry.* Ditch at the top of Emscote Hill, near the turn to Milverton, *Baly, Phyt.* i. 510. Near Stoneleigh, *Kirk, Phyt.* ii. 809.
5. LEAM. Radford (Semele), *Baly, Phyt.* i. 510.
6. SOW. Near Berkswell; Hollyberry End! Stivichall; Whitmore Park; Hearsal Common, *Kirk, Phyt.* ii. 809. Near Hawkes End, Allesley.

**LASTRÆA.** *Presl.***L. Thelypteris, Presl.** *Nephrodium Thelypteris*, Desv. *Aspidium*, Sw. *Marsh Fern.*

Top. Bot. 515. *Purt.* ii. 508. Syme, E. B. xii. 52. 1848.

Native; marshes and bogs. Very rare. P. July-August.

First record, Bree, Midland Flora, 1817.

1. **TAME.** Sutton Park.

6. **SOW.** In a boggy pit, Allesley, *Bree in Purt.* ii. 508. Plentiful in a boggy pit in this parish (Allesley) some years ago, but the pit is drained, and the fern entirely eradicated. I have never met with it elsewhere in the county, *Bree in Phyt.* i. 510. See "Mag. Nat. Hist." iii. 166, and v. 199, for further particulars. Rounsel Lane, near Kenilworth, *Bronz.* Exterminated here also.

**L. Oreopteris, Presl.** *Nephrodium Oreopteris*, Desv. *Mountain Fern.*

Top. Bot. 515. Syme, E. B. xii. 54. 1849.

Native; woods, copses, banks, and near streams. Rare. P. June to September.

First record, Ray's Synopsis, 1696, *Filix maris vulgaris varietas.*

1. **TAME.** In a lane near the Bell Inn, Erdington, *With. Ed.* 4. 759. Sutton Park, formerly abundant by many of the streams; Middleton Heath; Trickle Coppice, Middleton.

2. **BLYTHE.** Coleshill Heath, plentiful! *Bree in Purt.* ii. 508. Bannersley Rough; Marston Green; Great Packington; Windmill Naps, Little Ladbroke.

3. **ANKER.** North Wood, Arbury.

4. **AVON.** Dunsmore agri Warwicensis, *Doody, in Ray Synopsis, Ed.* 2. 341.

6. **SOW.** Corley, *Bree.* Haseley Common, *Perry, Phyt.* i. 510.

**L. Filix-mas, Presl.** *Male Fern.*

Top. Bot. 515. Syme, E. B. xii. 57. 1850. *Aspidium Filix-mas*, Swartz. *Nephrodium*, Rich.

Native; hedge banks, woods, and bushy places. Frequent, and generally distributed. P. June to August.

First record, W. Southall, Phytologist, 1843.

Var. *b. affinis*, Bab. Local.

1. **TAME.** Trickle Coppice; New Park, Middleton Heath; Shustoke.

2. **BLYTHE.** Hill Bickenhill; Meriden Shafts; Maxstoke.

3. **ANKER.** Hartshill Hayes; Birch Coppice, near Polesworth.

6. **SOW.** Hazel Hill Wood, Honiley; Corley Woods.

7. **STOUR.** White House, near Brailes.

8. **ALNE.** Wood near Claverdon; Bearley and Snitterfield Bushes; Austey Wood, Wootton Wawen; Alderhanger, near Tanworth.

9. **ARROW.** Coughton Park; Sambourn; Old Park Wood, near Alcester; Oversley Wood.

Var. *c. paleacea*, Moore. *L. Filix-mas*, var. *Borreri*, Bab.

1. **TAME.** Middleton Heath; Trickle Coppice; New Park; lane near Fillongley.

2. **BLYTHE.** Hill Bickenhill; Great Packington; Butler's Wood, Maxstoke; Blackhill Wood, Honiley.

3. ANKER. Bentley Park ; Arbury Park ; Birch Coppice, near Polesworth ; wood near Shilton Pastures.
4. AVON. All Oaks Wood ; Cathiron Lane, near Rugby.
6. SOW. Near Brinklow.
7. STOUR. Great Wolford Wood.
9. ARROW. Wire Hill, Sambourn ; Ennister Wood, Wixford.
10. CHERWELL. Wood near Farnborough.

**L. spinulosa**, Presl. *Nephrodium*, Desv. *Aspidium*, Sw.

Top. Bot. 516. Purt. iii. 81. Syme, E. B. xii. 76. 1855.  
Native ; damp banks, woods, and marshes. Local. P. June to August.  
First record, Withering's Arrangement, 1812, *Polypodium spinulosum*, Muller.

1. TAME. Birmingham Heath, *With. Ed.* 5. Sutton Park ; Trickle Cop-pice and New Park, Middleton ; Kingsbury Wood ; Arley Wood.
2. BLYTHE. Coleshill Heath ! and Frogmore Coppice ! near Temple Balsall, *Murcott, Phyt.* i. 510. Woods, Maxstoke ; Bannersley Rough ; marsh near Packington ; woods in Whey-porridge Lane, Solihull ; Shelly Coppice ; woods near Sharman's Cross ; Blackhill Wood, Honiley ; Windmill Naps, Little Ladbroke.
3. ANKER. North Wood, Arbury, *Kirk, Phyt.* ii. 807. Bentley Park ; Harts-hill Hayes ; Arbury Park.
4. AVON. Chesterton Wood, 1835, *Perry, MS.* Waverley Wood, near Weston, *Murcott, Phyt.* i. 510. Near Rugby, *Blox., Herb. Brit. Mus.* Newlands Wood, Hatton.
6. SOW. Allesley, *Bree in Purt.* iii. 81. In boggy places near Binley, *Kirk in Phyt.* ii. 807. Plant's Hill Wood, near Tile Hill.
7. STOUR. Wood near Old Fox Cover, Great Wolford ; Burton-on-the-Heath.
8. ALNE. Haywood ! *Y. and B.* Austey Wood, near Henley-in-Arden ; Bearley and Snitterfield Bushes ; Alderhanger, near Tanworth.
9. ARROW. Oversley Wood ; Wire Hill, Sambourn ; Ennister Wood, Wixford.

**L. dilatata**, Presl. *Nephrodium dilatatum*, Desv.

Top. Bot. 517. Purt. iii. 80. Syme, E. B. xii. 82. 1857.  
Native ; woods, copses, and banks. Locally common. P. June to August.  
First record, Purton, Midland Flora, 1821, *Aspidium dilatatum*, Sw.

1. TAME. Sutton Park ; Middleton Heath ; Trickle Coppice ; New Park ; Arley Wood.
2. BLYTHE. Coleshill ! *Bree in Purt.* iii. 80. Woods near Maxstoke ; Bannersley Pool and Rough ; woods about Solihull ; banks, Knowle and Hockley ; Hazel Hill Wood ; Honiley ; Windmill Naps, Little Ladbroke.
3. ANKER. North and other woods, Arbury, *Kirk, Phyt.* ii. 809. Bentley Park ; Hartshill Hayes ; Seas Wood, Arbury ; Birch Coppice near Polesworth.
4. AVON. Oakley Wood ; rocks below Milverton by the Avon, *Baynes.* Woodloes, *Perry, Phyt.* i. 510. Lower Hill Morton Road ; Blue Boar Lane ! lane near Bilton, *Rugby Sch. Rep.*, 1876.
6. SOW. Allesley, *Bree in Purt.* iii. 80. Stoke Heath, sparingly ! Whitley Common, *Kirk, Phyt.* ii. 809. Honiley ; Fernhill, *Y. and B.* Woods near Tile Hill ; Combe Woods.
7. STOUR. Great Wolford Wood ; old fox cover, Wolford Heath.

8. ALNE. Haywood ; Bearley Bushes ; Alderhanger.
9. ARROW. Coughton Lane ; Sperrall, *Purt.* iii. 80. Oversley Wood ; Ennister Wood.
10. CHERWELL. Wood near Farnborough.

### POLYPODIUM. Linn.

#### P. vulgare, Linn.      Common Polypody.

Top. Bot. 509. *Purt.* ii. 505. Syme, E. B. xii. 38. 1842.  
Native ; mossy banks, rarely on old trees, and walls. Locally common. P.  
June to October.  
First record, Perry, *Phytologist*, 1843, var. *β. serratum*.

1. TAME. Sutton Park, extinct there now ; Fillongley.
2. BLYTHE. Maxstoke ; Coleshill Heath ; Marston Green ; Olton Lane ; lanes about Knowle ; Solihull ; Shirley ; Hockley ; Honiley ; Forshaw Heath.
3. ANKER. Rare near Weddington Wood ; Watling Street.
4. AVON. Near Norton Lindsay, var. *β. serratum*, Perry, *Phyt.* i. 510. Lighthorne, *Miss Palmer*.
6. SOW. On a bank near Meriden Church, *Kirk, Phyt.* ii. 809. Allesley ; Corley ; Tile Hill.
7. STOUR. Abundant near Tysoe.
8. ALNE. Baddesley Clinton ; Rowington ; Claverdon.
9. ARROW. Sperrall ; Morton Bagot.
10. CHERWELL. Farnborough ; Warmington.

*P. Dryopteris*, Linn., "38, Warwick, planted." Top. Bot. 510. In 1866 I found a single plant of this in Darnel Hurst, Sutton Park. *Mr. J. B. Stone* has a specimen in his herbarium from this place also, and collected before he and I knew one another. I have never seen it here since 1866.

### OSMUNDA. Linn.

#### O. regalis, Linn.      Royal, or Flowering Fern.

Top. Bot. 522. *Purt.* ii. 518. Syme, E. B. xii. 30. 1838.  
Native ; bogs and river banks. Very rare. P. July.  
First record, Ray, *Catalogus*, 1670, *Filix florida sive Osmunda regalis*, Ger.

1. TAME. I have observed it in boggy places in most counties, and where I am now, at Middleton, Warwickshire, by the pales of the New Park, *Ray, Cat. Ed.* i. 1670. 113. Sutton Park, as I am informed, but very sparingly, *Bree, Phyt.* i. 511. Extirpated in Sutton Park many years since.
2. BLYTHE. Bog at Coleshill Heath, *Bree in Purt.* ii. 518. Found formerly at Coleshill Heath and other places, but I cannot find it now, *Bree, Phyt.* i. 511. Marston Green ; by the Blythe, near Coleshill.
4. AVON. Line's Spinny, near Rugby (now extinct, 1886), *Rugby Sch. Rep.*, 1886.

### OPHIOGLOSSUM. Linn.

#### O. vulgatum, Linn.      Adder's Tongue Fern.

Top. Bot. 524. *Purt.* ii. 502. Syme, E. B. xii. 19. 1835.  
Native ; pastures, meadows, and peaty heathlands. Local. P. May-June.  
First record, Perry, *Plantæ Selectæ*, 1820.

1. TAME. Middleton, near the Hall.
2. BLYTHE. Abundant at Elmdon, *Cameron*. Maxstoke, *Bree*, *Phyt.* i. 511. Meadows near the Rectory, Sheldon, *Jackson*, *Anal.*, 1837; heathland near Bannersley Pool; in several meadows and pastures near Knowle; meadows near Blythe Bridge, Solihull.
4. AVON. Plantations near Saltisford Common; field near Baly's Locks, Warwick, *Per. Fl.* 81. In two fields on the left of the Old Park Lane, called Commander's Fields, *Perry*. In fields near Emscote; Cotton Mills, *Baynes*. Plantation at Warwick Old Park, bordering on the Woodloes; at Goo1 Rest; Warwick Old Park, *Murcott*, *Phyt.* i. 512. Near Harborough Magna, *Blox.*, *MS.* Chadshunt; Gaydon, *Bolton King*.
5. LEAM. Meadows near the river, Leamington, *Sm.*, *Per. Fl.* 81. Meadows at Offchurch; a single plant at Whitnash, *Murcott*, *Phyt.* i. 512. Harbury, *Y. and B.* Bishop's Itchington, *Bolton King*.
6. SOW. Allesley, *Bree*. Eastern Green, *Baly*, *Phyt.* i. 512. Honiley, *Brom.* Pasture by Exhall Hall, Coventry, *Mrs. Browett*. Kenilworth, *Y. and B.* Corley, *Hillhouse*.
7. STOUR. Honington Bridge, *Townsend*.
9. ARROW. Ipsley, *Slatter*.

BOTRYCHIUM. *Swartz.*

**B. Lunaria**, *Sw.* *Osmunda*, *L.* *Moonwort.*

Top. Bot. 523. *Purt.* ii. 518. *Syme*, *E. B.* xii. 24. 1837. Native; old pastures and waste heaths. Very rare. *P.* May-June. First record, *Ray*, *Catalogus*, 1670. *Lunaria minor*, *Ger.*

1. TAME. In a close in Sutton Coldfield Park, in Warwickshire, *Ray*, *Cat. Ed.* i. 199. Near Long Moor Mill Pool, Sutton Park, *E. W. Badger, junr.* Heathy meadows, Middleton.
2. BLYTHE. On heathy ground near the upper part of Coleshill Bog, *Murcott*, *Phyt.* i. 511. Pastures near Knowle Railway Station, *W. G. Blatch!*
4. AVON. Lighthorne (now extinct), *Bolton King*. In some quantity upon one hill at the back of Lighthorne Rectory, 1853, *Miss Palmer*.
9. ARROW. Old pasture on Oversley Hill, *Rufford in Purt.* ii. 518.

## ORD. LXXXIV. EQUISETACEÆ.

EQUISETUM. *Linn.*

**E. maximum**, *Lam.* *E. fluviatile*, *Sm.* *Great Water Horse-tail.*

Top. Bot. 531. *Purt.* ii. 502. *Syme*, *E. B.* xii. 150. 1888. Native; near rivers, damp places, and woods. Local. *P.* May-June. First record, *Perry*, *Plantæ Selectæ*, 1820, *E. fluviatile*.

1. TAME. In a marshy coppice, Edgbaston, *W. Southall*. Kingsbury Wood, abundant.
2. BLYTHE. Near Honiley, *Brom.* Copse, near Elmdon, *Clift*, *Phyt.* i. 555.
3. ANKER. In a marshy situation, Arbury Hall! *Kirk*, *Phyt.* ii. 810. Abundant in Bentley Park, near Atherstone, 1883-5.

4. AVON. River Avon, Nicholas Meadow, *Per. Fl.* 80. Pit near Lawford Road, Rugby, *Blox.*, *Rugby Sch. Rep.*, 1867. Abundant on a railway bank near Alveston Pastures.
5. LEAM. Southam Holt.
6. SOW. Wroxall, *Y. and B.* Abundant, canal siding near Ansty, 1884.
7. STOUR. Abundant in coppice at Ilmington; abundant, footroad from Tysoe to Whatcote; Long Compton Woods.
8. ALNE. Near Pinley Abbey.
9. ARROW. In good fruit and abundant on high land near Morton Bagot; abundant by pool at Whor Place Farm, Ipsley.
10. CHERWELL. Spinny, near Wormleighton Reservoir, 1887.

**E. arvense, Linn.***Field Horse-tail.*

Top. Bot. 531. *Purt.* ii. 500. Syme, E. B. xii. 152. 1889.

Native; heaths, heathy roadsides, banks, and fields. Common, and generally distributed. P. March-April.

First record, Southall, Phytologist, 1841, unlocalised.

**E. sylvaticum, Linn.***Wood Horse-tail.*

Top. Bot. 532. *Purt.* ii. 501. Syme, E. B. xii. 156. 1891.

Native; woods and damp pastures. Rather rare. P. April-May.

First record, Ray, Catalogus, 1670, *Equisetum omnium minimum tenuifolium*, Park.

1. TAME. About and in New Park! Middleton, near Tamworth, *Ray, Cat. Ed.* i. 100. Near Botanic Gardens (Edgbaston), *W. Southall, Phyt.* i. 511. Trickle Coppice, Middleton.
2. BLYTHE. Near Elmdon, *Cameron, Phyt.* i. 555. Frogmore Wood, near Temple Balsall; Blackhill Wood, Honiley; Earlswood Reservoir.
3. ANKER. In a cornfield near Arbury Hall, *Kirk, Phyt.* ii. 972. Bentley Park, near Atherstone.
6. SOW. Burton Green, *Brom.* Wroxall.
8. ALNE. Boggy ground in Grafton Field, *Purt.* ii. 501.

**E. palustre, Linn.***Marsh Horse-tail.*

Top. Bot. 533. *Purt.* ii. 510. Syme, E. B. xii. 157. 1892.

Native; damp heaths, marshes, and watery places. Local. P. June to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Rotton Park Reservoir, *Grove.* Sutton Park; Hill Hook.
2. BLYTHE. Elmdon, *Southall, Phyt.* i. 512. Near Bannersley Pool; Coles-hill Pool; Earlswood.
3. ANKER. Canal, near Atherstone.
4. AVON. Boggy field at Norbrook, *Per. Fl.* 80. Near Buddbrook Field, Warwick, *Perry.* Meadows at Woodloes, *Murcott, Phyt.* i. 512. Near Harborough Magna, *Blox.*, *MS.* Old canal between Newbold and Little Harborough! pond at Cawston, *Rugby Sch. Rep.*, 1876. Moreton Morrell, *Brom.*
5. LEAM. Meadows at Bubbenhall, *Murcott, Phyt.* i. 512. Near Radford Semele.
6. SOW. Stoke, *Baly, Phyt.* i. 512. Beausale, *Y. and B.*
7. STOUR. Wimpstone Fields, 1886.
8. ALNE. Canal side, near Lowson Ford.
9. ARROW. Exhall, *Purt.* ii. 501.

Var. *polystachion*, Auct., Mill Pool, Bristol Road, Birmingham, *Luxford, Phyt.* i. 512.

**E. limosum, Sm.** *Smooth Naked Horse-tail.*

Top. Bot. 353. Purt. ii. 501. Syme, E. B. xii. 159. 1893.  
Native; pools, marshes, rivers, and canals. Rather local. P. June to September.

First record, Purton, Midland Flora, 1817.

1. TAME. Mill Pool, Bristol Road, Birmingham, *Cameron*. Sutton Park; Hill Hook; Middleton Pool; Kingsbury.
2. BLYTHE. Coleshill Pool! Elmdon, *Cameron*. Bannersley Pool! *Murcott*, *Phyt.* i. 512. Olton Pool; Earlswood.
3. ANKER. Pool in the road from Wolvey to Ryton; Bentley Park; Oldbury Reservoir.
4. AVON. River Avon, St. Nicholas Meadow, Warwick; Chesterton Mill Pool! *Perry*. Several pits in Warwick Old Park, *Murcott*, *Phyt.* i. 512. Canals near Newbold, Little Lawford, and Little Harborough, *Rugby Sch. Rep.*, 1876.
5. LEAM. Near Oldham's Mill, Leamington, *Baynes*, *Phyt.* i. 512.
6. SOW. Haseley Mill Dam, *Murcott*, *Phyt.* i. 512. Wroxall, *Y. and B.* Pool by Corley Rectory; Sow Waste Canal.
8. ALNE. Canal near Lowson Ford.
9. ARROW. Studley, *Purt.* ii. 510.
10. CHERWELL. Abundant, pool at Upton House.

Var. *b. fluviatile* (Linn). Rare.

1. TAME. Sutton Park; Hill Hook; ditches near Kingsbury.
2. BLYTHE. Copse near Elmdon, *Cameron*, *Phyt.* i. 555. Near Solihull; Shirley; Earlswood; Forshaw Heath.
3. ANKER. Seas Wood, Arbury; Oldbury Reservoir; Bentley Park.
4. AVON. Old Park, Warwick. *Y. and B.*
5. LEAM. Stockton. near the Reservoir; Napton Holt.
6. SOW. Pool near Tile Hill Wood; Sow Waste Canal; pool by Corley Rectory.
8. ALNE. Canal, Lowson Ford; near Dilke's Lane.

**E. hyemale, Linn.** *Rough Horse-tail.*

Top. Bot. 533? Syme, E. B. xii. 161. 1894.

Native? ditches. Very rare. P. July-August.

First record, Ray, Gibson's Camden, 1695, *Equisetum nudum*, Ger.

1. TAME. We found it in moorish ditches at Middleton, towards Drayton, *Ray in Gibson's Camden*, 1695. 515.

I have never been able to find the plant between Middleton and Drayton, nor elsewhere in Warwickshire.

## ORD. LXXXV. LYCOPODIACEÆ.

LYCOPODIUM. *Linn.***L. inundatum, Linn.** *Marsh Club-moss.*

Top. Bot. 526. Purt. ii. 522. Syme, E. B. xii. 14. 1831.

Native; marshy heaths and near pools. Very rare. P. July.

First record, Countess of Aylesford, Botanist's Guide, 1805.

2. BLYTHE, Coleshill Heath, *Aylesford*, *B. G.* 637. On the Upper End of Coleshill Pool in 1842, *Murcott*, *Phyt.* i. 512

**L. Selago**, *Linn.* *Fir Club-moss*

Top. Bot. 528. Extinct. *Purt.* ii. 522. Syme, *E. B.* xii. 12. 1830.  
Native? in bogs. Very rare. *P.* April to October.  
First record, Bree in *Midland Flora*, 1817.

2. BLYTHE. Bog at Coleshill Pool, *Bree in Purt.* ii. 522.

**L. clavatum**, *Linn.* *Common Club-moss*

Top. Bot. 525. *Purt.* ii. 520. Syme, *E. B.* xii. 16. 1833.  
Native; heaths. Very rare. *P.* July.  
First record, Bree in *Midland Flora*, 1817.

1. TAME. Sutton, *Freeman*, *Phyt.* i. 262. Sutton Park, 1884; *Miss Ethel Stone*.  
2. BLYTHE. Coleshill Heath, *Bree in Purt.* ii. 520. Coleshill Bog, *Southall*, *Phyt.* i. 512. Meriden Heath, *Kirk*.

An interesting account of the Lycopods of Warwickshire is given in "The Phytologist," vol. i. 61, by the Rev. W. T. Bree, from which it will be seen that none of the species given on his authority had been seen by him for many years in the localities above cited.

ORD. LXXXVI. MARSILEACEÆ.

**PILULARIA**. *Linn.*

**P. globulifera**, *Linn.* *Pill-wort.*

Top. Bot. 530. *Purt.* ii. 519. Syme, *E. B.* xii. 2. 1825.  
Native; shores of pools. Very rare. *P.* June to August.  
First record, Purton, *Midland Flora*, 1818.

1. TAME. Abundant near Bracebridge, Sutton Park, in two or three spots, 1876-80.  
2. BLYTHE. At Coleshill Pool! where I have found it covering the shore to a great extent, *Purt.* ii. 519. Abundant at Coleshill Pool as late as 1881.

ORD. LXXXVII. CHARACEÆ.

**CHARA**. *Ag.*

**C. fragilis**, *Desv.* *Brittle Chara.*

Syme, *E. B.* xii. 213. 1920.  
Native; pools and canals. Rare. *P.* July.  
First record, the Author, 1870, var. *Hedwigii*, *Ag.*

1. TAME. Hill Hook, abundant.
2. BLYTHE. Earlswood Reservoir, 1883, abundant.
3. ANKER. Near Bolehall, Tamworth ; in streams near the Anker, abundant ; Oldbury Reservoir.

Var. *c. capillacea*, Coss. and Germ. Very rare.

1. TAME. Pools and marshes, Sutton Park.

Var. *d. Hedwigii*, Kuetz. Rare.

2. BLYTHE. Canal, near Knowle, 1870. Spring Pools, Kenwalsey, 1883.
4. AVON. Harborough Magna, *Blax.*, *MS.*
8. ALNE. Canal, near Shrewley Tunnel ; pool, Wootton Wawen, near the church.

### **C. contraria**, Kuetz.

Syme, E. B. xii. 204. 1915. *C. fetida*, var. *β. contraria*, Coss. and Germ. Native ; canals. Very rare. P. July. First record, the Author, Journal of Botany, 1883.

6. SOW. Sow Waste Canal and pool near the canal, 1870.

### **C. vulgaris**, Linn. *C. fetida*, Braun. Syme, E. B. xii. 203. 1914.

Native ; pools, ditches, and canals. Local. P. May to September. First record, Baxter, *MS.*, about 1840.

1. TAME. Keeper's Pool, Sutton Park ! *A. W. Wills.* Bracebridge Pool, Sutton Park ; Kingsbury Wood.
3. ANKER. Ditch near Merivale Park.
4. AVON. Newbold-on-Avon ! *Baxter, MS.*, 1840. Pond near Chadshunt.
5. LEAM. Small pool near Birdingbury Wharf ; pool on Itchington Holt ; drains, Harbury.
7. STOUR. Abundant in stream, Wimpstone Fields.

Var. *b. longibracteata*, Kuetz.

1. TAME. Drains, Water Orton.
2. BLYTHE. Earlswood Reservoir.
4. AVON. Small pool near Chadshunt ; pool near Stratford-on-Avon ; old lime quarry near Little Lawford ; canal near Newbold-on-Avon.
5. LEAM. Pool near Napton-on-the-Hill ; Napton Reservoir ; Flecknoe, near Shuckburgh ; ditches near Harbury Railway Station.
6. SOW. Corley Heath, *Kirk.* Canal siding, Ansty, near Coventry.
7. STOUR. Small pool, Whatcote ; pool near Oxhill.
8. ALNE. Canal, near Bishopton and Wilmcote ; pool near Drayton Bushes.
10. CHERWELL. Pool near Wormleighton.

Var. *c. papillata*, Wall. Very rare.

1. TAME. Hill Hook, near Sutton Coldfield.
5. LEAM. Small pool, Itchington Holt.

Var. *f. crassicaulis*, Kuetz. Very rare.

6. SOW. "Coventry Park, near Coventry, *T. Kirk, Herb. Brit. Mus.*" A Review of the British Characeæ, H. and J. Groves, p. 13.

A form closely allied to var. *c. papillata* was abundant in a pit near Little Lawford, almost choking up the pit with its growth. Two years later I again visited the same pit, and found that, although there was an abundance of var. *b. longibracteata*, not a trace remained of the *papillata* form. The plant from Itchington Holt disappeared entirely after the first year, and was also replaced by the var. *b. longibracteata*.

### TOLYPELLA. Braun.

#### *T. glomerata*, Leonh.

Syme, E. B. xii. 186. 1905.

Native ; pools. Very rare. P. July.

First record, the Author, 1887.

7. STOUR. Wimpstone Fields, near Ilmington, 1887, in small pools, abundant.

### NITELLA. Ag.

#### *N. translucens*, Agardh.

Syme, E. B. xii. 180, 1901.

Native ; ditches. Very rare. P. June.

First record, H. Bromwich, about 1870.

8. ALNE. Ditches near Rowington, Brom.

#### *N. flexilis*, Agardh.

Purt. ii. 435. Syme, E. B. xii. 174. 1899.

Native ; ponds and pools. Rather rare. P. June to September.

First record, Withering's Arrangement, 1801, *Chara flexilis*, L.

1. TAME. In the third stew, front of the house, at Edgbaston, With. Ed. 4.  
i. 4. Windley Pool, Sutton Park.
2. BLYTHE. Olton Pool, 1881, in company with Mr. James Groves ; abundant in small pool near Olton Reservoir ; Earlswood Reservoir ; small pool on Forshaw Heath.
3. ANKER. Abundant in a pool near Hartshill, 1884.
4. AVON. Ditches about Drayton, Purt. ii. 435. In a pond near Warwick, Brom.
6. SOW. Canal, near Ansty.

#### *N. opaca*, Agardh.

Syme, E. B. xii. 178. 1900. *N. syncarpa* var. *b. opaca*, Kütz.

Native ; ponds and pools. Rare. P. May to September.

First record, the Author, 1881.

1. TAME. Sutton Park, in Bracebridge Pool and the stews adjacent.
2. BLYTHE. Dickens, near Earlswood, 1885.
6. SOW. Pool, near Honiley Poor's Wood.

## M U S C I .

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The Moss Flora of Warwickshire is, with a few exceptions, compiled from my own notes and observations made in Warwickshire from 1867 to the present time, nearly every part of the county having been visited, and the specimens obtained carefully examined.

The nomenclature and classification are those of The London Catalogue of British Mosses, Ed. 2, and whenever this nomenclature differs from that of Wilson's *Bryologia Britannica*, I have given the name adopted by Wilson as a synonym, followed by the abbreviation "Bry. Brit."

In the genus *Sphagnum* I have with each species quoted the page and plate in Dr. Braithwaite's very beautiful "*Sphagnaceæ of Europe and America*," in which the plant is described and figured; and I may here state that the foundation of my knowledge of the mosses was gained from Dr. Braithwaite, who not only gave me much valuable instruction, but also sent me specimens for examination, and whose courtesy and kindness throughout all the years that I have known him will be ever remembered with pleasure, and is here gratefully acknowledged.

### SECT. I. ACROCARPI.

#### ORD. I. SPHAGNACEÆ.

##### SPHAGNUM. *Dill.*

**S. acutifolium**, *Ehrht.* Braithwaite, Sphg. 66. 18.

Native; marshes and bogs. Local. September-October.

1. **TAME.** Abundant in Sutton Park; Trickley Coppice, and New Park, Middleton; Coleshill Bog; pine wood, bridle road from Marston Green to Stonebridge; Arley Wood.

Var. *d. rubellum*, (Wils.) Elevated places in bogs. Rare.

1. **TAME.** Sutton Park; on the turfy tufts form by *Molinia cærulea* in Coleshill Bog; pine wood, Coleshill Heath.

Var. *m. patulum*, Schimp. Braithwaite, Sphg. 69. 19. On elevated grassy places, growing in smaller looser tufts of a pale green colour. Rare. September.

1. **TAME.** Sutton Park; Coleshill Bog; Arley Wood.

Sub-var. *subfimbriatum*, Braithw. Rare.

1. TAME. Arley Wood.

Differs from the type in having the stem leaves fimbriated at the apex.

**S. fimbriatum**, Wils. Braithwaite, Sphg. 63. 16.

Native ; marshes and bogs. Rare. July to October.

1. TAME. In marshy land above Blackroot Pool, Sutton Park, 1875 ; above Bracebridge Pool, 1886 ; marshy ground, Shawberries Wood, abundant ; Bentley Park, in fine fruit, 1880 ; Brown's Wood and Cut-throat Wood, near Solihull ; Spring Coppice, Hockley.

**S. squarrosum**, Pers. Braithwaite, Sphg. 59. 14.

Native ; deep boggy places. Rare. June to September.

1. TAME. Near Powell's, Windley, Blackroot, and Bracebridge Pools, Sutton Park ; border of a pit near Seckington ; coppice at Cornets End, Berks-well, in fine fruit, June, 1884.

Var. *subteres*, Lind. Marshy places. Very rare.

1. TAME. By Windley Pool, Sutton Park.

**S. intermedium**, Hoffm. *S. recurvum*, Beauv. Braithwaite, Sphg. 78. 24.

Native ; bogs and marshes. Local. Rare in fruit. July.

1. TAME. In several of the bogs and marshes in Sutton Park ; Coleshill Bog, in fruit ; Trickley Coppice ; pine wood, Coleshill Heath ; marsh by the Entrenched Camp, Seckington.

A very variable plant both in colour and size, being in some of the localities much dwarfed.

**S. cuspidatum**, Ehrh. Braithwaite, Sphg. 82. 26.

Native ; drains and marshes. Rare. July-August.

1. TAME. Near Streetley Wood and Windley Pool, Sutton Park ; in drains, Trickley Coppice, Middleton.

Var. *plumosum*, Nees. Hsch. Small pool near Streetley, Sutton Park.

**S. subsecundum**, Nees. *S. contortum*  $\beta$ . *subsecundum*, Wils. Braithwaite, Sphg. 48. 9.

Native ; turfy bogs. Local. July.

1. TAME. Sutton Park ; Trickley Coppice, Middleton ; Coleshill Bog ; Arley Wood ; Cut-throat Wood ; near Spring Coppice, Hockley.

2. AVON. Drives in Haywood, Baddesley Clinton.

Var. *b. contortum*, Schult. Braithwaite, Sphg. 49. 10  $\delta$ . Local. Bogs and marshes.

1. TAME. Sutton Park; Coleshill Bog and Pool; pine wood, Coleshill Heath; Bannersley Pool; bog at Hill Bickenhill; Arley Wood; Bentley Park; near Seckington; Baxterley Common, abundant; Cut-throat Wood, near Solihull.
2. AVON. Chalcot Wood near Umberslade; Coughton Park.

Forma *rufescens*.

1. TAME. Small pool near Hill Bickenhill.

Var. *c. obesum*, Wills, Braithwaite, Sphg., 51. 10  $\beta$ . Rare. Spongy bogs.

1. TAME. In bogs above Blackroot Pool, Sutton Park; bog at Hill Bickenhill.
2. AVON. Near Chalcot Wood, Umberslade.

Var. *d. auriculatum*, Schimp. Braithwaite, Sphg. 50. 10  $\delta$ . Bogs and drains. Rare.

1. TAME. Sutton Park, above Blackroot Pool, in Pool Hollies and near Long Moor Mill Pool; Pine Wood, Coleshill Heath; Baddesley Common; Bentley Park; Cut-throat Wood, near Solihull.
2. AVON. Coughton Park.

*S. papillosum*, Lindb. Braithwaite, Sphg. 35. 4.

Native; marshes and bogs. Local. August-September.

1. TAME. Sutton Park, above Bracebridge Pool.

Var. *b. confertum*, Lindb. Marshes and bogs. Local.

1. TAME. Above Blackroot Pool, Sutton Park, in fruit; Pool Hollies Wood, Sutton Park; pine wood, Coleshill Heath.

*S. cymbifolium*, Ehrh. Braithwaite, Sphg. 38. 5 *a*. *S. latifolium*, L. Purt.

Native; bogs and marshes. Local. Rare in fruit. July to September.

1. TAME. Pool Hollies Wood, Sutton Park, in fruit; in most of the bogs and marshes in Sutton Park; Trickle Coppice, New Park, Middleton; Arley Wood; Coleshill Bog and Pool, in fruit; pine wood, Coleshill Heath; small pool in Bentley Park; bog near Hill Bickenhill; quarry, Cornets End, near Berkswell, in fruit; Brown's Wood, Solihull.
2. AVON. Coughton Lane, *Purt.* ii. 523. Poor's Wood, Honiley; Combe Woods.

Var. *b. congestum*, Schimp. Braithwaite, Sphg. 41. 5 *a*. Rare.

1. TAME. Grassy hillocks in Sutton Park; Barber's Coppice, Hampton-in-Arden.

Var. *c. squarrosulum*, Nees. Braithwaite, Sphg. 41. 5  $\beta$ . Very local.

1. TAME. In several places in Sutton Park; abundant in New Park, Middleton; small pool in Bentley Park; Cornets End, Berkswell.

## ORD. II. WEISSIACEÆ.

SYSTEGIUM. *Schimper.***S. multicapsulare**, *Sm. Phascum*, Bry. Brit.

Native ; banks. Very rare. February-March.

1. TAME. Banks in a field near Powell's Pool, Sutton Park, February, 1877.

GYMNOSTOMUM. *Hedwig.***G. tenue**, *Schrad.*

Native ; sandstone rocks and walls. Rare. August-September.

1. TAME. Stone walls, Harborne Road, Edgbaston, 1870 ; sandstone embankment, Waterworks Reservoir, Aston ; stone quarry near Tibb Hall, Foul End, Nether Whitacre ; on the boat house at Olton Reservoir.  
2. AVON. Abundant on sandstone rocks, canal, near Shrewley Common ; walls of Warwick Castle Grounds, 1883.

**G. rostellatum**, *Brid. Phascum*, Bry. Brit.

Native ; on dried sediment of pool. Very rare. August.

2. AVON. On dried up portion of Alcester Reservoir, August, 1888.

**G. microstomum**, *Hedw.*

Native ; on banks in a marly soil. Local. March to May.

1. TAME. Edgbaston, *Cameron!* Banks near Powell's Pool, Sutton Park ; railway bank near Baddesley Ensor ; marly bank, near Shuttington ; Maxstoke, near the Priory ; Olton, canal bank ; Baker's Lane near Knowle ; marly field near Kingsbury Wood.

I have not yet seen this in any of the districts drained by the Avon.

WEISSIA. *Hedwig.***W. viridula**, *Brid. W. controversa*, Hedw. Bry. Brit. *Grimmia*, Purt.

Native ; banks. Common. February to May.

1. TAME. Sutton Park ; Middleton ; Shustoke ; Marston Green ; Solihull ; &c.  
2. AVON. Allesley, very abundant, *Bree in Purt.* iii. 90. Stivichall ; near Stratford-on-Avon ; Stoneleigh ; Ipsley ; Sperrall ; Tysoe ; Brailes ; Wolford.  
3. CHERWELL. Farnborough ; Avon Dassett.

A form with a narrow sub-cylindrical capsule occurs locally, as at Knowle and Olton canal bank ; it approaches Wilson's var. *β. stenocarpa*, N. and H.

**W. mucronata**, *Bruch.*

Native ; marly and clayey banks. Rare. February to May.

1. TAME. Olton, canal bank ; banks near Duke End, Colesh

**W. elrrhata.** *Hedw.*

Native ; trees, thatch, old palings, &c. Frequent. April to June.

1. **TAME.** Sutton Park ; Middleton Park ; Kingsbury ; Maxstoke ; Fillongley ; Arley ; Merivale Park ; Shuttington ; Caldecote ; Wolvey ; Bulkington ; Kenwalsey ; near Solihull ; Knowle ; Earlswood.
2. **AVON.** Near Bretford and Brinklow ; Princethorpe ; Stivichall ; Baginton ; Cubbington Heath ; Ragley ; Sperrall ; Sambourn ; Ilmington.
3. **CHERWELL.** Farnborough ; Compton Quarry ; Avon Dassett.

**DICHODONTIUM.** *Schimp.***D. pellucidum,** *Linn. Dicranum pellucidum, Hedw., Bry. Brit.*

Native ; stonework near water, stones in streams. Rare. Not observed in fruit.

1. **TAME.** New Park, Middleton ; Harding's Wood, Fillongley ; drains near Birchley Stump, Maxstoke ; Spring Pools near Kenwalsey ; Close Wood, Kenwalsey ; Bentley Park.

**DICRANELLA.** *Schimp.***D. crispa,** *Hedw. Dicranum, Bry. Brit.*

Native ; sandstone rocks. Very rare. November.

2. **AVON.** Sandstone rocks, lane out of Sandy Lane, Milverton, April, 1877.

It is probable that this species may be found abundant in some of the Permian districts, as I find it abundantly on Permian rocks by the Hamstead Canal, Staffordshire.

**D. Schreberi,** *Hedw. Dicranum, Bry. Brit.*

Native ; on damp banks. Very rare. March.

1. **TAME.** By the side of the stream above Bracebridge Pool, Sutton Park, March, 1889, in fruit.

*b. elata,* *Schimp.* Very rare.

1. **TAME.** Below Rowton Well, Sutton Park, 1884 ; by the stream above Bracebridge Pool, March, 1889.

**D. cerviculata,** *Hedw. Dicranum, Bry. Brit.*

Native ; damp, turfey banks, heaths, and stream sides. Local. October-November.

1. **TAME.** Sutton Park ; Coleshill Heath ; Merivale Park.

**D. varia,** *Hedw. Dicranum, Bry. Brit.*

Native ; clay banks and heathy waysides. Local. November.

1. **TAME.** Sutton Park ; Plant's Brook ; Great Packington ; railway banks, Baddesley Ensor ; canal bank, near Solihull ; quarries, Hartshill ; Shuttington ; Spring Coppice, near Tamworth.
2. **AVON.** Canal bank, Ansty, near Coventry ; Corley Rock ; wild road from Bretford to Brinklow ; canal bank, near Rowington ; Shrewley Common ; Old Park Wood, Arrow ; Ilmington ; Wolford Wood ; banks near High Cross, Claverdon.

**D. rufescens, Turn. *Dicranum*, Bry. Brit.**

Native ; sandy banks. Very rare. November.

1. TAME. Tythall Lane, Solihull.

This moss is abundant on Permian rocks, Hamstead, Staffordshire, and will probably be found abundantly on similar rocks in Warwickshire.

**D. heteromalla, Hedw. *Dicranum*, Bry. Brit. Purt.**

Native ; banks and woods. Common throughout the county. November.

1. TAME. Sutton Park ; Kingsbury ; Hartshill ; Solihull, &c.  
 2. AVON. Ragley Woods ! Oversley Wood ! *Purt.* ii. 545. Warwick ; Ufton ; Combe Woods ; Tysoe ; Rowington ; Spennall ; Ipsley.  
 3. CHERWELL. Avon Dassett ; Ratley, Edge Hill.

A form with dark green strongly cirrhate leaves occurs on damp banks, and is most frequently barren, as at Sutton Park ; Hartshill Quarries.

**DICRANUM. Hedwig.****D. montanum, Hedw.**

Native ; roots of oaks and alders. Rare. Not yet observed in fruit.

1. TAME. Roots of an oak tree in Lower Nut Hurst, Sutton Park, 1870, the first British locality ; Shawberries Wood near Shustoke ; Birchmoor Stumps and Harding's Wood near Maxstoke ; Boulton Wood and Meriden Shafts near Meriden ; Bentley Park near Atherstone ; Brown's Wood, Solihull.  
 2. AVON. Crackley Wood, Kenilworth ; Holyfax Wood, Corley ; Waverley Wood, Stoneleigh.

First described as British in *Journal of Bot.*, October, 1871, tab. 119. fig. 2, by Dr. Braithwaite.

**D. fuscescens, Turn.**

Native ; on oak trees. Very rare. Not observed in fruit.

1. TAME. Birchley Stump Wood, near Maxstoke, 1882.  
 2. AVON. On the roots of young oaks, Morgrove Coppice, near Spennall.

**D. seoparium, Linn.**

Native ; hedge banks, heaths, and woods. Local. Rare in fruit. July-August.

1. TAME. Hill Hook, near Sutton ; School Rough, Marston Green ; Shawberries Wood, Shustoke ; Arley Wood ; Kenwalsey ; Bentley Park ; Parley Park ; near Atherstone ; Hartshill Hayes ; Shuttington ; Arbury Park ; in fruit, Brown's Wood, Solihull ; Tythall Lane, Solihull ; abundantly in fruit near Bedlam's End ; Barber's Coppice, Hampton-in-Arden.  
 2. AVON. In fine fruit, Waverley Wood, Stoneleigh ; Oakley Wood ; Poor's Wood, Honiley ; Combe Woods ; Wolford Wood ; Wimpstone ; Chalcot Wood ; Haywood ; Snitterfield Bushes ; Alderhanger and lanes about Tanworth ; Oversley Wood ; Old Park Wood, Arrow ; Coughton Park ; Morgrove Coppice, Spennall ; Rough Hill Wood, Sambourn.

Var. *e. orthophyllum*, Schimp.

1. TAME. Abundant on Baddesley Common near Atherstone; Waters' Wood, Maxstoke; Kenwalsey.
2. AVON. Combe Woods; Old Park Wood, Arrow; Rough Hill Wood, Sambourn; Coughton Park.

**D. majus**, *Turn.*

Native; woods. Rare. July-August.

1. TAME. Bentley Park, near Atherstone; Hartshill Hayes; Brown's Wood, Solihull.
2. AVON. Kersley, near Coventry, *T. Kirk!* Coughton Park; Rough Hill Wood, Sambourn.

**D. palustre**, *Bry. Brit.* *D. Bonjeanii*, De Not.

Native; banks, heaths, marshy places, thatched roofs, &c. Local. Very rare in fruit. July-August.

1. TAME. Sutton Park; abundant on an old thatched roof, Reddicap Hill, near Sutton; in fruit, banks, Marston Green; bog at Hill Bickenhill; Bentley Park; Parley Park: Hartshill Hayes; Baddesley Common; Barber's Coppice, Hampton-in-Arden.
2. AVON. Combe Woods; Rough Hill and Wire Hill Woods. Sambourn; Coughton Park; Oversley Wood; Old Park Wood, Wolford Heath; Chalcot Wood.

**D. undulatum**, *Ehrh.*

Native; damp heaths. Very rare. Barren.

2. AVON. Wolford Heath, April, 1887.

This is the first British station for this moss.

**D. spurium**, *Hedw.*

Damp heaths. Very rare. Barren.

- 1 TAME. Coleshill Heath, *H. Webb!*

This plant was in the herbarium of the late H. Webb; it was localised as above, but without date; it is correctly named. I have several times carefully searched Coleshill Heath, but have never seen the plant there.

**CAMPYLOPUS.** *Brid.*

**C. flexuosus**, *Brid.* *Dicranum flexuosum*, Dill. Purt.

Native; woods and heaths. Rare. Barren.

1. TAME. Heathland, near Streetley Wood, Sutton Park, in some abundance, 1880.
2. AVON. "Rocks, high moors. The specimen which I found upon some very high ground in Ragley Woods was in close tufts."—*Purt.* ii. 544.

336 **CAMPYLOPUS.**—**LEUCOBRYUM.**—**ARCHIDIUM.**—**PLEURIDIUM.**

**C. fragilis**, *B. and S.*

Native ; heathlands. Rare in fruit. **July to September.**

1. **TAME.** Hampton-in-Arden, *R. Rogers*. Sutton Park, occasionally in fruit ; bog at Hill Bickenhill ; Forshaw Heath.
2. **AVON.** Wood near Tile Hill, abundant.

**C. pyriformis**, *Brid.* *C. torfaceus*, *Bry. Brit.*

Native ; damp heathlands, sides of streams and drains in a peaty soil. Local and rare. August-September.

1. **TAME.** Sutton Park ; Coleshill Bog ; Baxterley Common ; Parley Park ; Bentley Park ; Birch Coppice, Polesworth ; Arley Wood.
2. **AVON.** Birtley Rough, near Brandon ; Combe Ridings ; Crackley Wood ; heathland, Great Wolford ; Alderhanger and Spring Wood ; Rough Hill Wood, Sambourn.

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**ORD. III. LEUCOBRYACEÆ.**

**LEUCOBRYUM.** *Hampe.*

**L. glaucum**, *L. Dicranum glaucum*, *Hedw.* *Purt.*

Native ; moist heathlands and heathy bogs. Rare. Barren.

1. **TAME.** Coleshill Heath, *Bree in Purt.* iii. 93. In many parts of Sutton Park, abundant ; Coleshill Bog ; pine wood, Coleshill Heath ; Forshaw Heath, near Earlswood.

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**ORD. IV. BRUCHIACEÆ.**

**ARCHIDIUM.** *Brid.*

**A. phaseoides**, *Brid.*

Native ; moist heaths. Rare. April.

1. **TAME.** Edgbaston, *Cameron !* Shores of Coleshill Pool, April, 1868-71.
2. **AVON.** Gannaway Grove, near Claverdon.

**PLEURIDIUM.** *Brid.*

**P. nitidum**, *Hedw.* *Phascum*, *Bry. Brit.*

Native ; moist banks, damp, sandy, and marly fields. Rare, or overlooked. April.

1. **TAME.** Field by Powell's Pool, Sutton Park ; The Grounds, Hampton-in-Arden, on garden beds ; Shirley ; on banks near Earlswood Reservoir ; near Knowle.
2. **AVON.** Gannaway Grove, near Claverdon ; stream by Chalcot Wood.

This is a very variable species. In some of the plants I have examined, the leaf cells are very loose, approaching *Ephemerum* in structure, and the stems an inch or more in length. In the form from Gannaway, the cells are more compact, and the fruit mostly terminal.

**P. subulatum**, Linn. *Phascum*, Bry. Brit.

Native ; banks, woods, &c. Locally abundant. April.

1. **TAME.** The Grange, Erdington ! *J. B. Stone*. Sutton Park ; Shawberries Wood, Shustoke ; near Brook End. Nether Whitacre ; Waters' Wood, near Maxstoke ; canal bank, near Nuneaton ; Griff Hollows ; Hartshill Stone Quarries ; Grendon ; Parley Park ; Shuttington ; Tythall Lane, Solihull ; Olton ; Packwood ; Barber's Coppice, Hampton-in-Arden.
2. **AVON.** Near Coventry ; Crackley Wood ; Rough Hill Wood, Sambourn ; Coughton Park ; Oversley Wood ; wood near Farnborough ; Combe Ridings ; Wolford Heath.

**P. alternifolium**, B. and S. *Phascum*, Bry. Brit.

Native ; banks and fallow ground. Rare. April.

1. **TAME.** The Grange, Erdington, *J. B. Stone* ! Old clay pit by Erdington Railway Station ; fields near Marston Green Railway Station.

## ORD. V. SELIGERIACEÆ.

### SELIGERIA. B. and S.

**S. pusilla**, Hedw.

Native ; sandstone walls. Very rare. April.

2. **AVON.** On the walls of the lodge in the court-yard of Warwick Castle, *Mrs. E. Hopkins* !

I have specimens of this from Mrs. E. Hopkins, of Chester, but have not seen it in the station given above.

## ORD. VI. POTTIACEÆ.

### SPHÆRANGIUM. Schimp.

**S. muticum**, Schreb. *Phascum*, Bry. Brit.

Native ; moist banks and fallow fields. Rare. April.

1. **TAME.** Fields near Powell's Pool, Sutton Park ; sandy fields, Coleshill Heath ; Tile House Green, near Knowle.

**PHASCUM.** *Linn.***P. cuspidatum,** *Schreb.*

Native ; moist banks and fields. Common. April.

1. **TAME.** Sutton Park ; Middleton ; Nether Whitacre ; near Spring Coppice, Tamworth ; Hartshill ; Coleshill Heath ; Hampton-in-Arden ; Solihull.
2. **AVON.** Sow Waste ; near Stratford-on-Avon ; Cold Comfort, near Alcester ; Atherstone-on-Stour ; Wolford.
3. **CHERWELL.** Farnborough.

Var. *e. curvisetum*, Dicks.

1. **TAME.** Sparingly in a fallow field near Coleshill Pool, March, 1869.

This variety has the seta so much elongated that the capsule is exerted beyond the comal leaves.

**POTTIA.** *Ehrh.***P. cavifolia,** *Ehrh. Tort. pusilla*, Hedw. Braith., Moss Flo.

Native ; mud-capped walls in lias soils. Local and rare. February-March.

2. **AVON.** Fenny Compton ; Compton Quarry ; Harbury ; Kineton ; Ilmington ; Tysoe ; Oxhill ; Long Compton ; Green Lane, Wilmcote ; Avon Dassett.

Var. *incana* (Nees. Horns.). Rare.

2. **AVON.** Wall tops, Harbury ; Fenny Compton ; Oxhill ; Tysoe ; Long Compton.
3. **CHERWELL.** Avon Dassett ; Compton Quarry, abundant.

This variety has long hairy points to the leaves.

**P. minutula,** *Schw.*

Native ; marly and sandy fields. Local. November to April.

1. **TAME.** Fields, Hartshill ; Gulley Common, near Nuneaton ; Astley ; Maxstoke ; Solihull ; near Acocks Green ; Shirley ; Sheldon.
2. **AVON.** Bearley ; Red Hill.

**P. truncata,** *Linn.*

Native ; fallow fields, heathy footways, banks. Frequent. November to April.

1. **TAME.** Sutton Park ; Middleton ; Merivale ; Hartshill ; Gulley Common ; Hampton-in-Arden ; Solihull, &c.
2. **AVON.** Stoneleigh ; Stivichall ; Sow Waste ; Ufton ; Oxhill ; Ipsley ; Kingswood.
3. **CHERWELL.** Warmington ; Farnborough.

**P. intermedia,** *Turn. P. truncatula*  $\beta$ . *major*, Bry. Brit.

Native ; fields and walls. Local. February to April.

1. **TAME.** Fields near Westwood Coppice, Sutton Park ; fields, Coleshill Heath ; wall top near Arley Wood ; field near Spring Coppice, Tamworth ; Hartshill Quarries ; Gulley Common ; Hampton-in-Arden ; Shirley.
2. **AVON.** Exhall ; Kingswood ; Bearley ; Henley-in-Arden ; lias walls, Tysoe and Oxhill ; Weethley ; banks of the Arrow, near Coughton Court ; Coughton Mill ; Fenny Compton.
3. **CHERWELL.** Avon Dassett.

[*P. Wilsoni*, Hook., has been found at Moseley, Worcestershire, not far from the borders of Warwickshire, by E. W. Badger, jun., and may probably be found in Warwickshire.]

***P. lanceolata*, Dicks. *Anacalypta*, Bry. Brit.**

Native ; marly banks and mud-capped walls in lias soils. Local. February to April.

1. **TAME.** Growing with *P. intermedia* at Arley Wood ; marly banks, Tythall Lane, Solihull.
2. **AVON.** Marly bank by Chesterton Wood, in abundance ; lias wall tops at Harbury ; Fenny Compton ; Kineton ; Edge Hill ; Ilmington ; Oxhill and Tysoe ; Long Compton.
3. **CHERWELL.** Avon Dassett ; Compton Quarry, near Fenny Compton.

**DIDYMODON. *Hedw.***

***D. rubellus*, B. and S.**

Native ; walls and banks. Local. October to December.

1. **TAME.** Old clay pits, Erdington ; Sutton Park, on bridges over the streams ; Arley ; wall tops near New Fillongley Hall ; Hartshill Quarries ; Merivale Park ; Griff Hollows ; canal bridges between Olton and Knowle ; canal bridge near Three Maypoles, Shirley ; Kenwalsey.
2. **AVON.** Lias walls, Kineton ; Kenilworth Castle ; Harbury, near Marton ; lias walls, Tysoe ; Oxhill ; old bridge near Henley-in-Arden ; banks of the Arrow at Washford, near Studley.
3. **CHERWELL.** Farnborough.

***D. luridus*, Hornsch.**

Native ; stone coping of bridges and footways. Rare. Barren.

1. **TAME.** Coping of bridge by the Anker, near Weddington ; stonework, canal siding, near Atherstone ; footways near Grendon.
2. **AVON.** Banks of the Avon, near Hatton Rock.

***D. flexifolius*, Dicks.**

Native ; heathlands. Very rare. Barren.

1. **TAME.** Parley Park, very abundant.

**D. sinuosus, Wils.**

Native ; walls and tree roots. Rare. Barren.

1. TAME. Bridge over the Anker, Leather Mill, near Mancetter.
2. AVON. On felled trees, near Loxley ; on the roots of a tree stump, Fenny Compton ; very abundant on railway bridge in the road from Birdingbury to Norton, 1878. Walls near Alderminster.

**DITRICHUM. Timm.**

**D. flexicaule, Schwg. Trichostomum. Bry. Brit.**

Native ; marly banks. Very rare. Barren.

2. AVON. Abundant on a marly bank, Marl Cliff, near Bidford ; heathy lane, Wawen's Moor, by Stoooper's Wood.

**TRICHOSTOMUM. Smith.**

**T. tophaceum, Brid.**

Native ; walls and clay banks. Local. March-April.

1. TAME. Dam of Bracebridge Pool, Sutton Park ; Erdington, in old clay pits ; walls near Arley Wood ; railway bank, Baddesley Ensor ; canal siding, Atherstone and Grendon ; bridge over the Anker, Shuttington ; Austrey ; Weddington ; Caldecote ; Gulleys Common ; Olton Reservoir, on banks ; bridge over canal, Olton.
2. AVON. Fine form on dripping banks near Shrewley Tunnel ; canal bank, Ansty, near Coventry ; banks by Old Park Wood, Arrow ; Atherstone-on-Stour ; Wimpstone.
3. CHERWELL. Avon Dassett ; Wormleighton Reservoir ; Compton Quarry.

**BARBULA. Hedw.**

**B. rigida, Schults. Tortula, Bry. Brit.**

Native ; wall tops in calcareous soils. Rare. November to February.

2. AVON. By the side of the Ridgeway, *Purt.* ii. 543. Wall tops just past the Church at Harbury ; wall tops, Fenny Compton ; Kineton ; Tysoe ; Ilmington ; wall of farm, Green Lane, Wilmcote.

**B. ambigua, B. and S. Tortula, Bry. Brit.**

Native ; walls and banks in marly and calcareous soils. Local and rare. November to February.

1. TAME. Mortared walls about Hartshill and Nuneaton ; near Arley Wood.
2. AVON. Astley ; walls, Compton Verney, quite abundant ; Fenny Compton ; Harbury ; Snowford, near the bridge ; marly banks, Princethorpe ; Tysoe ; Ilmington ; Bearley.
3. CHERWELL. Avon Dassett.

**B. aloides, Koch. Tortula, Bry. Brit.**

Native ; clay banks and mud-capped walls. Local. November to February.

1. **TAME.** Clay banks near Maxstoke Priory; walls near Nuneaton; Harts-hill; canal siding near Attlebury Fields; Marston Green; Olton canal siding; canal bridge near Three May Poles, Shirley.
2. **AVON.** Near Stratford-on-Avon; Red Hill, near Alcester; walls, Compton Verney; marly banks, Princethorpe; wall tops, Ilmington; Tysoe; Halford; clay banks, Bearley.
3. **CHERWELL.** Avon Dassett.

**B. atro-virens, Sm. *Desmatodon nervosus*, Bry. Brit.**

Native; marly banks in lias soils. Very rare. December.

2. **AVON.** On a marly bank on the Alcester Road, three miles from Stratford-on-Avon, December, 1876.

I only found a single tuft on this occasion, and have not been able to find more since that time. It is a remarkable plant to find so far inland.

[*B. cuneifolia*, Dicks., occurs near Halesowen, on the coal measures. I have not been able to find it in similar districts in Warwickshire. This is also a maritime species. It was quite abundant when I first found it in the above locality in 1870.]

**B. marginata, B. and S. *Tortula*, Bry. Brit.**

Native; stone walls and stonework of bridges. Local, but widely spread. May-June.

1. **TAME.** Sutton Park; walls near Arley Railway Station; walls of New Fillongley Hall; walls of Meriden Park; bridge over Anker, near Caldecote Mill; small bridge near Anker Mill.
2. **AVON.** Stone walls, Charlcote; wall and bridge over the River Dene, at Charlcote; Warwick Castle walls; sandstone walls, Guy's Cliff, and Milverton; Baginton Hall grounds; Allesley; quarry, Corley Heath; walls of Rowington Hall.

**B. muralis, Linn. *Tortula*, Bry. Brit.**

Native; walls. Common, and generally distributed. March to May.

Var. *β. incana*, Schimp. Rather rare.

2. **AVON.** On mortar, canal bridges, Bearley; Hatton; Wilmcote; abundant on old walls, Guy's Cliff.

This is a remarkably hoary form, noticeable for the long hair points of the leaves.

Var. *γ. aestiva*, Brid. Rare. Damp sandstone walls.

1. **TAME.** Stone coping of bridge, near Powell's Pool, Sutton Park; stonework of the dam at Bracebridge Pool.

This form approaches *B. marginata* in general aspect, having very short hair points, and more acute leaves than the type.

Var. *δ. rupestris* (Schultz). Very local.

1. **TAME.** Stone walls, near New Fillongley Hall; old walls, near Three May Poles, Shirley.

2. AVON. Wall tops, Tysoe; Oxhill; canal bridge near Shrewley Common on banks, near Grafton; wall of farm near Rose Hall, Oversley; Ipsley; Broom Hill, near Tysoe.

**B. unguiculata**, Dill. *Tortula*, Bry. Brit.

Native; walls, banks, fields, &c. Common, and generally distributed. November to March.

Var. *β. cuspidata*, Bry. Eur. Local.

1. TAME. Mortar coping of wall near Hartshill; Old Fillongley Hall; near Arley Railway Station.
2. AVON. Lias banks, near Wixford; marly ground, Yarningale Common; Tysoe.
3. CHERWELL. Avon Dassett.

Var. *γ. apiculata*, Hedw. Local.

1. TAME. Park walls, New Fillongley Hall; Hartshill.
2. AVON. Wasperton; Whichford.
3. CHERWELL. Farnborough; Avon Dassett.

A small *brevicaulis* form occurs on a bank near Hampton Lucy; and a robust broad-leaved form, often in large barren tufts, occurs near Hampton Lucy and Tysoe.

**B. fallax**, Hedw. *Tortula*, Bry. Brit.

Native; banks in marly and sandy soils. Local. November.

1. TAME. Sutton Park; Erdington Clay Pits; Shustoke, on railway banks; near Old Fillongley Hall; banks, Maxstoke; Hartshill Quarries; Shuttington; Caldecote; Ashby, canal siding; Marston Green.
2. AVON. Bridge at Barford, abundant in the barren state; Thelesford Bridge; bridge at Charlcote; wall, Cublington; Ilmington; Tysoe; Lower Eatington; Halford; Coughton Court.
3. CHERWELL. Wormleighton Reservoir.

Var. *β. brevifolia*, Wils. Very rare.

1. TAME. Old wall near Marston Green.

Var. *γ. brevicaulis*, Schw. Very rare.

1. TAME. Bridge near Salter Street, Earlswood, December, 1883.  
Confirmed by Dr. Braithwaite.

**B. rigidula**, Dicks. *Trichostomum rigidulum β. densum*, Bry. Brit.

Native; wall tops, more especially in lias districts. Local and rare. November.

1. TAME. Canal siding near Grendon.
2. AVON. Ufton Churchyard wall; Harbury; near Henley-in-Arden; Coughton.

**B. spadicea, Mitt.** *Trichostomum rigidulum*, Bry. Brit.

Native; banks, footways, and damp walls. Local. Barren.

1. TAME. Ballard's Green, near Arley; Gully Common, near Nuneaton; Bentley; near New Fillongley Hall.
2. AVON. Banks near Little Dasset; Kinton; Red Hill, on footways; footways, Aston Cantlow; Bearley; bridge near Henley-in-Arden; Coughton Court; Morton Bagot; Easington; Whichford.
3. CHERWELL. Warmington; Wormleighton Reservoir.

**B. eylindrica, Tayl.** *Tortula insulana*, De Not. *T. vinealis*, var. *flaccida*, Bry. Brit.

Native; banks. Local. Barren.

1. TAME. Stonework, Bracebridge Pool and Druid's Well, Sutton Park; side of the Anker near Grendon; on bridges near Caldecote; Weddington; Shuttington; Wolvey; side of stream, near Henfield, Knowle.
2. AVON. Lane by Whitley Abbey; Astley; walls, Stivichall; Whatcote; trees by drain, Wimpstone Fields; tree roots near stream, Crab's Cross; Washford; Coughton Court, Arrow.

**B. vinealis, Brid.** *Tortula*, Bry. Brit.

Native; walls. Rare. Barren.

2. AVON. Wall of Milverton Churchyard; walls, Oxhill; Astley.
3. CHERWELL. Walls, Warmington.

**B. Hornschuchiana, Schultz.** *Tortula*, Bry. Brit.

Native; mortared walls and on the ground in marly soils. Rare in fruit. March-April.

1. TAME. Ballard's Green, near Arley; lane near Fillongley; canal bridge, Shirley Heath.
2. AVON. Sandstone rocks, near Whitley Abbey; Bearley; Yarningale Common.

**B. revoluta, Schwg.** *Tortula*, Bry. Brit.

Native; on the mortar of walls. Not rare. May-June.

1. TAME. Sutton Park; Fillongley; Oldbury Reservoir; Ashby canal siding; Bradnock's Marsh; near Solihull; Bentley; Earlswood Reservoir; Shirley.
2. AVON. Pedlar's Bridge, near Brinklow; bridge at Barford; Thelesford Bridge; Charlcote; Compton Verney; Binton; Cubbington Heath; Halford Bridge; Honiley; Bearley; Shrewley Common; Yarningale Common; Ipsley.
3. CHERWELL. Farnborough.

**B. convoluta, Hedw.** *Tortula*, Bry. Brit.

Native; walls and waysides. Local. May-June.

1. **TAME.** Railway banks near Gravelly Hill ; Sutton Park ; heathy footways near Whitacre Railway Station ; walls near Arley Railway Station ; bridge over the Anker, near Mancetter ; wall of cottage near Meriden Shafts.
2. **AVON.** Willenhall, near Coventry ; Yarningale Common.

**B. tortuosa, Linn. Tortula, Bry. Brit.**

Native ; old walls. Very rare. Barren.

1. **TAME.** Somewhat sparingly on a canal bridge, near Olton.

I have not seen it elsewhere in the county, but have noticed it in the above station for many years.

**B. Brebissoni, Brid. Cinclidotus riparius, var.  $\beta$ . terrestris, B. and S., Bry. Brit.**

Native ; on roots of trees near water. Rare. May.

2. **AVON.** On willow trunks, Avon side, near Hatton Rock ; banks of the Avon, near Bidford ; in fine fruit, banks of the Alne, near Aston Cantlow ; willow trunks, stream near Crab's Mill, Preston Bagot, in fruit ; on an old bridge near Holywell ; near Henley-in-Arden ; in fruit on trees, banks of the Arrow, near Ragley ; banks of the Arrow, near Coughton.

**B. subulata, Linn. Tortula, Bry. Brit.**

Native ; sandy banks, walls, and tree roots. Local. May-June.

1. **TAME.** Footway from Marston Green to Marston Hall ; Fillongley ; Copt Heath ; Packwood.
2. **AVON.** Near Oakley Wood ; on walls, Guy's Cliff ; near Cubbington Heath ; Harbury ; Kingswood ; Washford ; Ipsley ; Keresley, near Coventry ; near Stratford-on-Avon ; near Offchurch.

**B. lævipila, Brid. Tortula, Bry. Brit.**

Native ; trees, sometimes on stone walls. Local. May-June.

1. **TAME.** On elm trees near Wolvesey ; trees by the Anker, Grendon ; Griff Hollows ; Copt Heath ; Hampton-in-Arden.
2. **AVON.** Edge Hill ; Compton Verney ; Oakley ; Hill Morton ; Sherborne ; Wasperton ; Barford ; quarries near Warwick ; Milverton ; Binton ; Harbury ; Offchurch ; Birdingbury ; Cubbington Heath ; Rowington ; Preston Bagot ; Tysoe ; Brailes ; Fullready ; Cherrington ; Ipsley ; Morton Bagot.
3. **CHERWELL.** Warmington ; Avon Dassett.

**B. latifolia, B. and S. Tortula, Bry. Brit.**

Native ; on roots of trees and woodwork near water. Local, rare in fruit. May-June.

1. **TAME.** Rye Hill, near Tamworth ; trees by the Anker, near Grendon ; bridge over the Anker, near Mancetter ; Caldecote ; stream below Kingsbury, near Nether Whitacre ; side of stream, near Henfield, Knowle ; on trees and pales, abundant about Ryton End and Bradnock's Marsh.

2. **AVON.** Abundantly in fruit by the River Avon at Barford Bridge; bridle road from Chadshunt to Drayton Bassett; on willow trunks, banks of the Avon. Bidford; on trees near Bretford Bridge; trees by Pedlar's Bridge, near Brinklow; tree roots near Willenhall; banks of drains, Wimpstone Fields; Halford Bridge; in fruit near Crab's Mill, Preston Bagot; wooden bridge and alders, near Holywell; on trees over Itchen, Snowford Bridge; Washford; Ipsley; Sperrall.
3. **CHERWELL.** Warmington, footway from Farnborough.

**B. ruralis, Linn.** *Tortula*, Bry. Brit.

Native; thatched roofs, walls, &c. Local. March.

1. **TAME.** Coleshill; Maxstoke; Shustoke; near the lodge by Arley Railway Station; near Hartshill.
2. **AVON.** Wall by Chesterton Windmill; near Oakley Wood, on trees; thatched roof, Fenny Compton; roof of the lodge, Lower Eatington; Whichford; Fullready; Atherstone-on-Stour; roofs, Yarningale Common; Temple Grafton; Morton Bagot; Ipsley.
3. **CHERWELL.** On trees, Farnborough; Avon Dassett.

**B. intermedia, Brid.** *Tortula ruralis*, var. *minor*, Bry. Brit.

Native; wall tops, rarely on banks in lias soils. Rare and local. April-May.

1. **TAME.** Bridge over the Anker, near Mancetter; Fillongley.
2. **AVON.** Wall, Edge Hill; Binton; Harborough Magna; Harbury, in fruit; abundant in fruit, stone walls near Ilmington; Lower Eatington; walls near White House, Tysoe; Whichford; small bridge near Pinley Abbey; walls at Wootton Wawen; banks near Temple Grafton; Coughton Court; Greenhill Green; Morton Bagot.

**B. papillosa, Wils.** *Tortula*, Bry. Brit.

Native; on trees and old pales. Rather rare. Barren.

1. **TAME.** On trees between Wolvey and Shilton; old palings near Olton Pool; footway from Marston Green to Elmdon; on elms, Copt Heath.
2. **AVON.** Bourton Heath, near Rugby; abundant on elms between Stratford and Alcester; on ash trees, Marl Cliff, near Bidford; on an oak tree near Princethorpe; on elms near Birdingbury; foot bridge near Holywell; on elms near Alcester Lodge; on elms near Washford, and Studley; Wimpstone Fields; Little Wolford.
3. **CHERWELL.** On elms near Farnborough.

**CERATODON. Brid.**

**C. purpureus, Linn.**

Native; heaths, walls, banks, trees, &c. Very common, and generally distributed. May-June.

A peculiar form, with larger and thicker leaves and coarser areolation, occurs in large caespitose masses on the roots of oaks, occasionally submersed, banks of the Tame, near Water Orton, possibly a form of var. *paludosus*.

Var. *paludosus*. Rare.

2. **AVON.** On tree roots liable to inundation, banks of the Arrow, Ragley. Leaves very wide, capsule erect without struma, stem branched.

## ORD. VII. CALYMPERACEÆ.

ENCALYPTA. *Schreb.*

[*E. vulgaris*, Hedw., which I found near the Lickey Hills on hedge banks, has not yet been found in Warwickshire, but will probably be found on the west side of the county.]

*E. streptocarpa*, Hedw.

Native ; on the mortar of old walls. Rare. Barren.

1. TAME. Wall of cottage near Meriden Shafts ; abundant on walls near Arley ; on stone walls near New Fillongley Hall ; on a bridge over the Anker, near Mancetter ; on a small bridge near Earlswood.
2. AVON. Abundant on stone walls between Red Hill and Alcester, 1883.

## ORD. VIII. GRIMMIACEÆ.

GRIMMIA. *Ehrh.**G. apocarpa*, L. *Schistidium*, Brid.

Native ; on walls. Frequent. February-March.

1. TAME. Near New Fillongley Hall ; near Arley ; near Merivale Hall ; Olton Canal bridge ; old bridge at Elmdon ; Coleshill.
2. AVON. Compton Verney ; Kineton ; Edge Hill ; Warwick ; Binton ; banks of Avon, near Hampton Lucy ; near Leamington ; Cubbington Heath ; Ufton ; canal siding, Ansty ; Corley ; Willenhall ; Tysoe ; Oxhill ; Whatcote ; Lower Easington ; Brailes ; Whichford ; Ilmington ; Wootton Wawen ; Shrewley Common ; Pinley ; Morton Bagot ; Coughton.
3. CHERWELL. Warmington ; Avon Dassett ; Wormleighton.

Var. *gracilis*, N. and H. Stone walls near Fillongley ; stone walls near Hampton Lucy.

Var. *rivularis*, Brid. Stones in streams. Rare.

On stones in the large pool by Arbury Hall.

*G. crinita*, Brid.

Native ; on the mortar of an old wall. Very rare. June.

2. AVON. On an old bridge near Hatton.

This interesting plant was fairly abundant in this station when I first found it in June, 1872. Unfortunately in 1873 the bridge was pulled down for repairs, and nearly the whole of the moss was exterminated. In 1889, when I last visited this locality, the moss had begun again to make headway. I believe this is at present the only British station. It is ably described by Dr. Braithwaite, Journ. of Bot., July, 1872.

**G. pulvinata, Dill.**

Native ; wall tops. Common, and generally distributed. March-April.

**G. triehophylla, Grev.**

Native ; wall tops. Rare. Barren.

2. AVON. Stone walls of a farmyard, corner of road from Cubbington to Chesford Bridge ; Stoneleigh ; on Radford Semele canal bridge, near Leamington ; wall of Lapworth Churchyard.
3. CHERWELL. Avon Dassett, churchyard wall.

**RACOMITRIUM. Brid.**

**R. lanuginosum, Hedw.**

Native ; walls. Very rare. Barren.

2. AVON. Chesford Bridge ; Kenilworth, road from Leamington, April, 1884 ; Pinley.

Very sparse and small, evidently a starved form.

**R. canescens, Hedw.**

Native ; heathy waysides. Rare. Barren.

1. TAME. Shores of Coleshill Pool, *Bree in Part.* iii. 85. Near Berkswell Railway Station, on the main road to Kenilworth ; near Four Ashes, lane leading to Monkspath ; lane from Solihull to Sharman's Cross.

**R. heterostichum, Hedw.**

Native ; on stone walls. Rare. April.

2. AVON. Pinley, *Kirk!*

I have never found this moss in any Warwickshire locality.

[*R. aciculare*, L., and *R. fasciculare*, Schrad, both occur near Halesowen, and will probably be found on stone walls in South Warwickshire.]

**PTYCHOMITRIUM. B. and S.**

**P. polyphyllum, Dicks.**

Native ; stone walls. Very rare. April.

2. AVON. Near Binley, Coventry, *Kirk!*

**ZYGODON. H. and T.**

**Z. viridissimus, Dicks.**

Native ; on roots of trees and banks. Local and rare. Fruit very rare. April.

1. TAME. On roots of trees, near Wolvey; banks of the Anker, near Grendon; tree roots, Copt Heath, near Knowle; Henfield, Knowle; Hampton-in-Arden.
2. AVON. Bretford, near Rugby; bridle road from Chadshunt to Drayton Dassett; near Oakley Wood; Barford, near Warwick; Morton Hill; Loxley; between Red Hill and Stratford-on-Avon; Princethorpe; near Harbury; Offchurch and Long Itchington: Bishop's Tachbrook; in fruit on old palings, Hopsford, near Brinklow, 1885; Stivichall; Lower Easington; Little Wolford; Tysoe; Whatcote; Fullready; Preston Bagot; Wootton Wawen; Morton Bagot; Whichford.
3. CHERWELL. Near Warmington; Farnborough; Avon Dassett.

### ULOTA. *Mohr.*

**U. crispa**, *Hedw.* *Orthotrichum crispum*, Bry. Brit.

Native; on trees. Rare. June.

1. TAME. Coppice in Whey-porridge Lane, Solihull; Shelly Coppice; Barber's Coppice, Hampton-in-Arden.
2. AVON. Allesley, *Bree in Part.* iii. 96. The Ridings, Combe Woods; Ipsley; Morton Bagot.

**U. intermedia**, *Schpr.*

Native; on trees. Rare. June.

1. TAME. Shustoke, near the Bull's Head Tavern; Bentley Park; coppice near Boxtrees, Hockley.
2. AVON. The Ridings, Combe Woods; Chalcot Wood, near Umberslade; Waverley Wood, Cubbington; Birtley Rough, near Brandon.

This does not appear to be more than a variety of *U. crispa*.

### ORTHOTRICHUM. *Hedw.*

**O. saxatile**, *Brid.* *O. anomalum*. Bry. Brit.

Native; walls. Local, and rare. February-March.

1. TAME. Walls at Hampton-in-Arden, *R. Rogers*.
2. AVON. Edge Hill; Kineton; bridge over river Dene, Charlecote; stone coping of canal near Rugby; Binton; old walls, Harbury; Fenny Compton; stonework, canal, near Ansty; old walls, Tysoe; Ilmington; Oxhill; Henley-in-Arden; near Wilmcote; Lawson Ford; near Holywell.
3. CHERWELL. Warmington; Avon Dassett; Ratley.

**O. eupulatum**, *Hoffm.*

Native; stone walls in lias districts. Very rare. June.

2. AVON. Walls near Newbold-on-Stour, April, 1888.

**O. obtusifolium**, *Schrad.*

Native; on trees. Very rare. Barren

2. AVON. Abundant on an elm between Tysoe and Oxhill, 1887; Fullready; near Brailes Hill; Wimpstone Fields; abundant on a small ash tree near Binton, 1876-78; near Kineton.
3. CHERWELL. On ash trees near Farnborough.

**O. affine**, *Schrad.*

Native; trees and walls. Frequent. June.

1. TAME. Shustoke, near the River Bourne; on wall tops, Tipper's Hill, Arley; Wolvey; Griff Hollows; near Anker Bridge, near Mancetter; Grendon; Copt Heath; Olton; Solihull.
2. AVON. Wolston Heath; Edge Hill; Chesterton Wood; Oakley; near Stratford-on-Avon; near Birdingbury; Marton; Tysoe; Oxhill; Little Wolford; Ilmington; Rowington; Ipsley; Morton Bagot.
3. CHERWELL. Near Warmington; near Farnborough.

**O. fastigiatum**? *Bruch.*

On walls. Very rare. June.

2. AVON. What appears to be this species on the bridge over River Dene, Charlccote; on trees by the streams near Crab's Cross.

**O. tenellum**, *Bruch.*

Native; on trees. Rare. June.

1. TAME. On trees near Old Fillongley Hall; near Weddington.
2. AVON. Between Red Hill and Stratford-on-Avon; near Offchurch; Ilmington; Wimpstone; Little Wolford.

**O. stramineum**, *Hornsch.*

Native; trees. Rare. June.

2. AVON. On trees near Birdingbury; on trees, Washford, near Studley; Ilmington.

**O. diaphanum**, *Schrad.*

Native; trees, walls, and stones. Local. April to June.

1. TAME. Castle Bromwich; near Caldecote; road from Wolvey to Shilton; Weddington; near Olton Pool; Hampton-in-Arden.
2. AVON. Offchurch; Wolstone Heath; Moreton Morrell; Barford; Charlccote; Sherborne; Loxley; Hampton Lucy; near White House, Tysoe; Barton-on-Heath; Brailes; Ilmington; Aston Cantlow; Lapworth; Preston Bagot; Drayton Bushes; Ipsley; Washford.
3. CHERWELL. Wall, Farnborough Hall; Arlescote.

**O. Lyellii**, *H. and T.*

Native; trees, frequent. Very rare in fruit. June.

1. TAME. On rotting willow trees, near Mancetter; near Anker Bridge; starved specimens, trees near Solihull; Copt Heath; Henfield, near Knowle; Bentley Heath.

2. AVON. Edge Hill; Compton Verney; Chadshunt; Barford; Wasperton; Loxley; Alveston Pastures; near Stratford-on-Avon; Weston; Princethorpe; Frankton Wood; Waverley Wood; Ladbroke; Offchurch; Fenny Compton; Hopsford, near Brinklow; in fine fruit, Great Wolford; Ipsley Wood; Long Compton Wood; Oxhill; Tysoe; Easington; Brailes; Studley.
3. CHERWELL. Farnborough, in fruit; Warmington; Avon Dassett; Wormleighton.

**O. leiocarpum, B. and S.**

Native; trees. Very rare. May-June.

2. AVON. On an Ontario poplar, near Rowington Village.

**O. rivulare, Turn.**

Native; on trees near water. Very rare. June.

2. AVON. On stones and a water wheel at Bidford Grange, *Bree in Purt.* iii. 388. Stone work, canal, Ansty; on trunks of willows, stream by Crab's Mill, Preston Bagot.

ORD. IX. FUNARIACEÆ.

**EPHEMERUM. Hampe.**

**E. serratum, Schreb. Phascum, Bry. Brit.**

Native; fallow fields. Very local, and rare. March-April.

1. TAME. Sutton Park; near Sheldon; Coleshill Heath; Maxstoke; Olton; Solihull; Shirley.

**PHYSCOMITRELLA. Schimp.**

**P. patens, Hedw. Phascum, Bry. Brit.**

Native; damp, marly banks. Very rare. Autumn.

1. TAME. Damp, marly bank near Fillongley Hall.
2. AVON. Alcester Reservoir.
3. CHERWELL. Pool at Wormleighton.

**PHYSCOMITRIUM. Brid.**

**P. pyriforme, Linn. Gymnostomum, Purt.**

Native; moist banks and waysides. Local. April-May.

1. TAME. Sutton Park; Aston; Water Orton; Arley; lane from Fisher's Bridge to Middleton; near Austrey; road to Seckington from Tamworth; Watling Street, near the Plough; Duke's Bridge, near Coleshill; Eastcotes Green, near Solihull; Knowle.
2. AVON. Near Cubbington Wood; near Stoneleigh; Astley; Binley; Wyre Hill, Sambourn; Ipsley; Spennall; banks of Arrow, near Kingley; Old Park, Arrow.
3. CHERWELL. Fox Cover, Farnborough.

**FUNARIA.** *Schreb.*

**F. fascicularis**, *Dicks.* *Physcomitrium*, Bry. Brit.

Native ; fallow fields and heathy waysides. Local. April.

1. TAME. Sutton Park ; field near Hoare Park ; Nether Whitacre ; The Grange grounds, Erdington ; field by Spring Coppice, near Tamworth ; fields near Maxstoke Priory ; Coleshill Heath ; Maxstoke Park ; Hampton-in-Arden ; Marston Green ; near Solihull.
2. AVON. In a field near Ufton Church ; lane by Whitley Abbey.

**F. hygrometrica**, *Linn.*

Native ; walls, waysides, woods, &c. Common, and generally distributed. May to November.

ORD. X.—BARTRAMIACEÆ.

**AMBLYODON.** *P. Beau.*

**A. dealbatus**, *Dicks.*

Native ; damp turfy heaths. Very rare. April.

1. TAME. Sutton Park.

**BARTRAMIA.** *Hedw.*

**B. pomiformis**, *Linn.*

Native ; dry, shady banks. Local and rare. April.

1. TAME. Lane, near Erdington, *J. B. Stone!* Sutton Park ; Middleton Heath ; Curdworth ; Marston Green ; Brown's Wood, Solihull ; Little Dickens, Earlswood.
2. AVON. Lane from Spennall Ash to Middletown, *Purt.* ii. 538. It does not appear to be in this locality now.

**PHILONOTIS.** *Brid.*

**P. fontana**, *Linn.* *Bartramia fontana*, Bry. Brit.

Native ; marshes. Local. Rare in fruit. April.

1. TAME. In fruit, Sutton Park, Windley, Keeper's, and Bracebridge Pools ; Quarry, near Freasley Hall, near Fazeley ; damp heaths, Baddesley ; Stone Quarries, Hartshill ; Hill Bickenhill ; near Four Ashes, Knowle.
2. AVON. Cookhill, *Purt.* ii. 538. Birdingbury ; canal siding, near Harborough Magna.

Var. *β. caspitosa*, Wils.

1. TAME. Stone Quarries, Hartshill ; Henfield, near Knowle ; Grendon ; Curdworth.
2. AVON. Footways, near Spring Wood, near Hockley ; heathy footways, Studley ; Spennall.

**P. calcarea**, *B. and S. Bartramia*, Bry. Brit.

Native ; damp marshy places. Rare. Barren.

1. TAME. Stone quarries, Hartshill.

2. AVON. Ansty, near Brinklow, in abundant male flower.

## ORD. XI.—BRYACEÆ.

**LEPTOBRYUM.** *Schimp.***L. pyriforme**, *Linn. Bryum aureum*, E. B. Purst.

Native ; sandstone rocks and walls, Local and rare. May.

1. TAME. Tree-pots in Botanical Gardens, Edgbaston ; tree-pots in greenhouse, Aston ; quarry by Old Fillongley Hall ; Olton Reservoir.

2. AVON. Walls of Warwick Castle, *Bree, Midland Flora*, iii. 88. Birdingbury ; Willenhall, near Coventry, *Kirk*. Stone quarry, Warwick ; rocks, near Milverton ; Leek Wootton ; Shrewley, canal siding.**WEBERA.** *Hedw.***W. nutans**, *Schreb. Bryum nutans*, Schreb. Bry. Brit.

Native ; damp heaths, thatch, woods, &amp;c. Frequent. May.

1. TAME. Sutton Park ; Marston Green ; Hartshill ; Birch Coppice, Polesworth ; Bulkington ; Weddington ; Wolvey ; Burton Hastings ; Arbury ; Solihull ; Earlswood.

2. AVON. Princethorpe ; Great Wolford ; Morton Bagot ; Oversley Wood ; Old Park, Arrow ; Coughton ; Wolford Heath ; Whichford Wood.

**W. annotina**, *Hedw. Bryum annotinum*, Bry. Brit.

Native ; sandstone rocks and banks. Local and rare. June.

1. TAME. Quarry, near Freasley Hall, Fazeley ; drains near Shustoke ; in fruit, drains near Mancetter ; Hartshill Quarries ; near Newton Regis, near Anker Mill ; in fruit, Marston Green ; Barber's Coppice, Hampton-in-Arden.

2. AVON. Coughton Lane, *Purst.* ii. 535. Dripping Well, Milverton ; canal siding near Rowington. .**W. carnea**, *L. Bryum carneum*, Bry. Brit.

Native ; sandy banks and drains. Local. April.

1. TAME. Clay pits, Erdington ; banks of the Bourne, near Arley ; drains, Bentley Park ; near Polesworth ; near Alvecote Mill ; Hartshill Quarries ; Gulley Common ; Newton Regis ; Grendon ; Austrey ; Ashby canal siding ; Ilmington.

2. AVON. Canal bank, Combe Fields ; Wimpstone Fields ; lane from Dadley's Wood to Corley Moor ; canal siding, Shrewley ; Morton Bagot ; banks near High Cross, Claverdon ; canal bank, near Rugby.

**W. albicans**, *Wahl.* *Bryum Wahlenbergii*, Schw., Bry. Brit.

Native ; damp rocks and sandy places. Local. May.

1. TAME. Near Middleton Hall ; near Walmley ; near Curdworth Bridge ; drains near Shustoke ; near Bentley Park ; Hartshill Quarries ; marly field by Brown's Wood, Solihull.
2. AVON. Binley, near Coventry, *Kirk*. Corley Village ; Sow Waste ; Tile Hill ; Crackley ; Bearley, canal siding ; Snitterfield and Bearley Bushes ; Claverdon ; Old Park Wood, near Alcester ; near Atherstone-on-Stour.

**BRYUM.** *Dill.***B. pendulum**, *Hornsch.* *B. cernuum*, Bry. Brit.

Native ; sandstone rocks and walls. Local. June.

1. TAME. Brickwork, Bracebridge Pool, Sutton Park ; walls near New Fillongley Hall ; wall, Tipper's Hill, near Arley.
2. AVON. Walls, Kenilworth Castle ; rotting trunks near Gaydon Inn ; walls near Rowington Church ; Wolford Heath ; Ilmington.

**B. inclinatum**, *Swartz.*

Native ; sandstone walls, waysides, &amp;c. Rare. June.

1. TAME. Railway bank near Stechford ; near the Entrenched Camp, Seckington ; waysides, road from Barston Marsh to Ryton End.

**B. uliginosum**, *Bruch.*

Native ; marshy places. Very rare. June.

2. AVON. Canal siding near Ansty, and on dripping banks, Combe Fields, 1883-84.

**B. intermedium**, *W. and M.*

Native ; walls and clay pits. Local. June.

1. TAME. Old clay pits, Erdington, abundant ; stone walls, Sutton ; Sutton Park ; canal siding near Berkswell.
2. AVON. Stone quarries, Warwick ; canal siding near Rowington.

**B. bimum**, *Schreb.*

Native ; marshes, bogs, &amp;c. Local. June.

1. TAME. Sutton Park ; marshy places, Baddesley Common ; Hartshill Quarries ; Caldecote Wood ; marsh near Great Packington ; Olton.
2. AVON. Ansty canal siding ; footways, Astley ; banks of canal, Combe Fields ; canal banks, Rowington ; footways by Snitterfield Bushes ; near Holywell ; Wimpstone ; Whichford Wood ; Wolford Heath.
3. CHERWELL. Wormleighton Reservoir.

Var. *β. cuspidatum*, Bry. Eur. Stone walls. Rare.

1. TAME. Walls of park near New Fillongley Hall ; Sutton Park, May, 1869.

**B. pallescens, Schleich.**

Native ; walls. Rare. June.

1. TAME. Stone walls of New Fillongley Hall Grounds, 1882.

**B. erythrocarpum, Schwg. B. bicolor, Purt. B. sanguineum, Wils.**

Native ; walls and sandy places in quarries. Rare. May-June.

1. TAME. Coleshill Pool, *Bree in Purt.* iii. 89. Near the railway, Whitacre.
2. AVON. Wall of churchyard, Moreton Morrell ; canal siding near Kingswood.

**B. murale, Wils.**

Native ; on the mortar of walls. Local. June.

1. TAME. Sutton Park ; wall near Mancetter ; canal bridge near Olton ; Baulk Lane, near Berkswell.
2. AVON. Ufton Churchyard wall ; bridge near Barford ; bridge near Friz Hill ; bridge near Shrewley Common.
3. CHERWELL. Wall tops, Avon Dassett.

**B. atropurpureum, W. and M.**

Native ; walls and heathy places. Local. May-June.

1. TAME. Sutton Park ; Whitacre Heath ; waysides near Whitacre ; walls and stone quarries, Hartshill.
2. AVON. Near Milverton Church ; Ufton Churchyard wall ; Ilmington, on marly footways ; Griff Colliery.
3. CHERWELL. Compton Quarry near Avon Dassett.

**B. cæspiticiu, Linn.**

Native ; walls, waysides, &c. Common, and generally distributed. May-June.

**B. argenteum, Linn.**

Native ; banks, walls, heaths, footways. Common, and generally distributed. October-November.

**B. capillare, Linn.**

Native ; trees, walls, thatch, banks, &c. Common, and generally distributed. May-June.

*β. majus*, often abundant on thatched roofs, forming large matted tufts, abundant in fruit.

A barren form is often abundant on tree roots, this I cannot refer to any named variety, but it is nearest to var. *flaccidum*.

**B. obeonicum, Hornsch.**

Native ; mortar of old walls. Very rare. June.

2. AVON. Walls of bridge, canal near Rowington.

**B. pallens, Swartz.**

Native; marshy, sandy places. Rare. July.

1. TAME. Sutton Park, near several of the pools, but always barren; Bentley Park; Parley Park; canal siding near Grendon; Gullely Common; Hartshill Quarries; Small Heath, in fruit, 1870.
2. AVON. Ipsley; Ilmington, on damp footways; Astley.

**B. pseudo-triquetrum, Hedw.**

Native; marshes. Rare. Barren; male flowers found only.

1. TAME. Sutton Park; marsh near Great Packington; stone quarries, Harts-hill.
2. AVON. Marsh at Binley.

**B. roseum, Schreb.**

Native; grassy banks. Very rare. Barren.

1. TAME. Sutton Park, by Bracebridge Pool, 1878; Marston Green.

## ORD. XII. MNIACEÆ.

## MNIUM. Linn.

**M. affine, Bland.**

Native; shady wet banks, marshes, and bogs. Local. Female flowers only observed; always barren.

1. TAME. With abundant female flowers, Blackroot and other pools, Sutton Park; Marston Green; Olton canal siding; Kenwalsey.
2. AVON. Coughton Park; Whitley; near Hollyberry End.

**M. undulatum, Hedw. *Bryum ligulatum*, Purt.**

Native; woods, and banks. Local. Rare in fruit. April to June.

1. TAME. Sutton Park; Middleton; Kingsbury Wood; Bentley Park; Parley Park; Caldecote Wood; Warton; Hartshill Hayes; Marston Green; Olton, &c.
2. AVON. Marsom's Gate; Dunnington, *Purt.* ii. 536. Friz Hill Wood, Walton; Birtley Rough near Brandon; Fosseyway, near Bretford; in good fruit, Allesley Village; Burton Coppice, Wolford Heath; Wimpstone Fields; Ilmington; Banum's Wood, Morton Bagot.
3. CHERWELL. Fox Cover, Farnborough; Wormleighton Reservoir.

**M. rostratum, Schrad. *Bryum rostratum*, E. B. Purt.**

Native; drains. Rare. April-May.

1. TAME. Drain near Over Whitacre, abundantly in fruit; lane by Parley Park; marsh near Shuttington; Caldecote Wood, in good fruit; Weddington; The Grounds, Hampton-in-Arden.

2. AVON. Oversley Hill, *Purt.* iii. 89. Washford, near Studley; Hootton's Big Wood, Corley.

**M. hornum**, *Linn.* *Bryum hornum*, *Purt.*

Native; marshes and damp banks. Frequent. May.

1. TAME. Sutton Park; Middleton; Kingsbury; Bentley Park; Hartshill Hayes; Birch Coppice; Marston Green; Solihull; Earlswood, &c.  
2. AVON. Ragley Woods, *Purt.* ii. 532. Corley Woods; Crackley Wood; Wolford Heath; Rowington canal siding; Haywood; Spennall; Ipsley; Studley; Morton Bagot; Edge Hill Wood.

**M. stellare**, *Hedw.*

Native; banks. Rare. Barren.

1. TAME. Shustoke; near Maxstoke Priory; Shawberries Wood, Shustoke.  
2. AVON. Dripping Rocks, Milverton.

**M. punctatum**, *Hedw.* *Bryum punctatum*, *Purt.*

Native; near streams, marshes, clayey banks. Local. March.

1. TAME. In fruit, Long Moor Mill Pool, and above Blackroot Pool, Sutton Park; marsh, near Shuttington; New Park, Middleton; Harding's Wood and Water's Wood, Maxstoke; Bentley Park; Caldecote Wood; Burton Hastings; Seckington; Wolvey's Hill; Marston Green; Olton canal siding; abundant fruit, Black Font and near Three May Poles, Shirley Heath; Blythe Bridge, Solihull; wood near Knowle Hall; abundant in fruit, Kenwalsey, 1890.  
2. AVON. Oversley Lodge! *Purt.* ii. 535. Combe Woods; Tile Hill Wood; Oxhill; Atherstone-on-Stour; Ilmington; Coughton Court; Bearley Bushes.  
3. CHERWELL. Wormleighton.

A large form occurs in Whichford Wood, barren.

**M. subglobosum**, *B. and S.*

Native; bogs and marshes. Rather rare. March.

1. TAME. Sutton Park, in fruit, near several of the pools; Kingsbury Wood; in abundant fruit, Black Font, Shirley Heath, 1879-84.  
2. AVON. Drain near Waverley Wood, Stoneleigh; Binley.

**AULACOMNIUM.** *Schw.*

**A. androgynum**, *Linn.*

Native; hedge banks and woods in sandy soils. Local. Always barren.

1. TAME. Sutton Park; Middleton Heath; Water Orton; Bentley Park; Polesworth; Parley Park; Shuttington; Wilnecote; Caldecote; Mancetter; Hartshill; Weddington; Burton Hastings; Seckington; Wolvey; Arbury; Solihull; Knowle, &c.  
2. AVON. Wire Hill, Sambourn.

**A. palustre**, Linn. *Bryum palustre*, Pursh.

Native; marshes and bogs. Local.

1. TAME. Coleshill Heath! *Purt.* iii. 86. Sutton Park, in fruit, *Webb*, abundant there in the barren state; Baddesley Common; Marston Green; marsh near Packington; sand quarry, Cornets End, Berkswell.
2. AVON. Canal siding, Ansty, near Brinklow; heathy pasture, near Great Wolford.

ORD. XIII. TETRAPHIDACEÆ.

**TETRAPHIS.** *Hedw.*

**T. pellucida**, Linn. *Georgia*, Ehrh.

Native; woods and banks. Not unfrequent with gemmiferous shoots. Rare in fruit. July-August.

1. TAME. Sutton Park; New Park, Middleton, in fruit; in fruit, Shawberries Wood, Shustoke; Hartshill Hayes; Bentley Park; Parley Park; wood near Olton, in fruit; Close Wood, Meriden; Poor's Wood, Honiley, in fruit; Barber's Coppice, Hampton-in-Arden, abundantly in fruit; Black Font, Shirley Heath, fruit.
2. AVON. Whitley Lane, near Coventry; Combe Woods; Birtley Rough, Brandon.

ORD. XIV. POLYTRICHACEÆ.

**ATRICHUM.** *P. Beauv.*

**A. undulatum**, Linn. *Catharinaea*, Ehrh.

Native; woods and banks. Frequent. October to April.

1. TAME. Sutton Park; Middleton Woods; Kingsbury Wood; Shawberries Wood; Bentley Park; Parley Park; Shuttington; Hartshill Hayes; Ashby canal siding; Seas Wood, Arbury; Griff Hollows; Marston Green; Olton; Solihull, &c.
2. AVON. Edge Hill; Friz Hill; Ufton Wood; Combe Woods; Stivichall; Whitley Wood; Barton Coppice, Wolford Heath; Whichford Wood; Rowington; Haywoods; Morton Bagot.
3. CHERWELL. Near Farnborough; Fox Cover, Farnborough.

Var. *attenuatum*. Sandy banks. Rare.

1. TAME. Sandy bank, Solihull; waysides, Little Dickens, near Earlswood.

**POGONATUM.** *P. Beauv.*

**P. nanum**, Neck. *P. subrotundum*, Huds.

Native; heathy footways and banks. Local. October-November.

1. **TAME.** Castle Bromwich; near Middleton Hall; Hill Bickenhill; Hartshill Hayes; Hartshill Quarries; Shirley Heath; waysides, Little Dickens, Earlswood.
2. **AVON.** Kenilworth Heath; Chalcot Wood; footways near Spring Wood, near Umberslade; Coughton Park.

*β. longisetum*, Hampe. Rare.

2. **AVON.** Chalcot Wood, Umberslade, 1874.

**P. aloides**, Hedw. *Polytrichum aloides*, Purt.

Native; marly and sandy banks. Local. October-November.

1. **TAME.** Sutton Park; Brown's Wood, Solihull; Hartshill Quarries; abundant in small wood near Three Pots on the way for Wolvey; lane from Meriden to Packington Park; Earlswood; Shirley.
2. **AVON.** On the highest parts of Ragley Woods, *Purt.* ii. 531. Umberslade; Coughton Park; Whichford Wood; Wolford Wood; Combe Woods.

Var. *β. minus*, Bry. Eur. Rare.

1. **TAME.** Near Brown's Wood, Solihull; Shirley Heath; near Packington Park.

### POLYTRICHUM. Linn.

**P. gracile**, Menz.

Native; woods and heathlands. Rare. May-June.

1. **TAME.** Abundant in Sutton Park; Middleton Heath; Trickle Coppice and New Park, Middleton; Hartshill Hayes; Brown's Wood, near Solihull.
2. **AVON.** Waverley Wood, Stoneleigh.

**P. formosum**, Hedw. *P. attenuatum*, Menz.

Native; woods and heaths. Local. May-June.

1. **TAME.** Sutton Park; Trickle Coppice and New Park, Middleton; Kingsbury Wood; Birch Coppice, Polesworth; Arley Wood; Bentley Park; Hartshill Hayes; Coventry Wood, Arbury; Butler's Wood, near Maxstoke; Brown's Wood, Solihull; pine wood, near Coleshill; Barber's Coppice, Hampton-in-Arden; Shirley.
2. **AVON.** Birtley Rough, Brandon; Oakley Wood; Combe Woods; Haywood; Coughton Park; Wire Hill, Sambourn; Bush Wood, Lapworth; Chalcot Wood.

**P. piliferum**, Schreb.

Native; heaths and heathy footways. Local. May-June.

1. **TAME.** Sutton Park; Old Chester Road; Middleton Heath; Merivale Park; Bentley Park; walls near Hartshill; quarries, Hartshill; near Oldbury Reservoir; Coleshill Pool; Coleshill Heath; The Grounds, Hampton-in-Arden.
2. **AVON.** Baginton; Wire Hill Wood, Sambourn; Yarningale.

**P. juniperinum, Hedw.**

Native ; heaths and heathy waysides. Local. May-June.

1. TAME. Sutton Park ; Trickley Coppice ; Plant's Brook ; Shuttington ; Hartshill Quarries ; Coleshill Heath ; Coleshill Pool ; Hampton-in-Arden.
2. AVON. Baginton ; heathland near Great Wolford ; Wire Hill Wood, Sambourn ; Oversley Wood ; Yarningale Common.

**P. commune, Linn.**

Native ; marshes, bogs, damp woods. Local. June.

1. TAME. Abundant, Sutton Park ; Trickley Coppice and New Park, Middleton ; Arley Wood ; Shuttington ; Seckington ; Hartshill Hayes ; Coventry Wood, Arbury ; Hartshill quarries ; Coleshill Pool ; Coleshill Bog ; Brown's Wood, Solihull.
2. AVON. Combe Woods ; Barton Coppice, Wolford Heath ; Haywood ; Wire Hill Wood, Sambourn.

Var. *minus*, Swartz. Rare.

1. TAME. Sutton Park.

Var. *β. perigoniale*, Schpr. Rare.

1. TAME. Sutton Park ; Hartshill Quarries.

## SECTION II. AMPHOCARPI.

## ORD. XV. FISSIDENTACEÆ.

**FISSIDENS. Hedw.****F. bryoides, Hedw.**

Native ; marly and sandy banks. Common, and generally distributed. January to April.

Var. *γ. inconstans*, Schpr. Rare.

2. AVON. Growing with *F. bryoides* and *F. incurvus* near Binton Bridges. This appears to be merely an abnormal form of *F. bryoides*.

**F. exilis, Hedw.**

Native ; On rabbit heaps, and clayey soils, in woods and on banks in *lias* soils. Rather rare. February.

1. TAME. Banks, Shuttington Village ; lane to Caldecote ; Seckington Road, near Spring Coppice ; Watling Street, near Weddington ; canal bank, near Solihull ; Baker's Lane, near Knowle.
2. AVON. Lane by Stivichall Hall to Baginton ; Haywood, on rabbit heaps ; Bearley ; lane by Yarningale Common.

**F. incurvus, W. and M.**

Native; clayey banks. Local. March.

1. TAME. Wood in lane from Maney to Walmley; Shustoke and Dumble Hole, near Maxstoke; Kingsbury Wood; Seckington Road, near Spring Coppice; Weddington; Solihull; canal bank near Solihull and Olton; Barber's Coppice. Hampton-in-Arden.
2. AVON. Lane, Bretford to Brinklow; bank near Weston, on the road to Princethorpe; Bearley, on banks near the village; Yarningale Common; Temple Grafton; Banum's Wood, Morton Bagot.

**F. tamarindifolius, Brid.**

Native; marly banks. Rare. March.

1. TAME. Seckington Road, near Spring Coppice; banks near Packwood Grange; lane near Lapworth Church.
2. AVON. Near Binton Bridges; near Princethorpe; Drayton Bushes.

**F. pusillus, Wils.**

Native; damp sandy banks. Rare. March.

1. TAME. Near Bacon End, Coleshill; private road from Shuttington to Seckington.
2. AVON. Lane from Bretford to Brinklow; lane near Yarningale Common.

Var. *Lylei*, Wils., MS. Very rare.

2. AVON. Abundant on the banks of a drain near Coundon, on the way to Allesley; on lias banks, near Birdingbury Wharf.

**F. crassipes, Wils.**

Native; woodwork near water. Very rare. April.

2. AVON. Sparingly by the water wheel at Guy's Cliff

**F. adiantoides, Hedw. Dicranum, Purt.**

Native; marshes, rare. Very rare in fruit. October.

1. TAME. By Windley and Blackroot Pools, in good fruit, Sutton Park; Ballard's Green, near Arley; canal side near Small Heath Railway Station.
2. AVON. Recorded by Purton from a strawberry bed near Studley Castle, *Purt.* ii. 547. Marsh near Binley.

**F. taxifolius, Linn.**

Native; clay banks. Local. November.

1. TAME. Pool Hollies, Sutton Park; Kingsbury Wood; Bentley Park; Seckington Road, near Spring Coppice; Hartshill Hayes; Hartshill Quarries; Wolvey; Arbury; canal bank, Olton.
2. AVON. Edge Hill; Combe Woods; Fosseway, Compton Verney; Friz Hill; Barford; Oakley Wood; Ufton Wood; Wolford Wood; Little Wolford; Whichford Wood; Haywood; Rowington; Morton Bagot.
3. CHERWELL. Near Farnborough.

## SECTION III. CLADOCARPI.

## ORD. XVI. RIPARIACEÆ.

CINCLIDOTUS. *P. Beauv.***C. fontinaloides**, *Hedw. Trichostomum*, *Purt.*

Native; mill walls and river banks. Rare. June.

2. **AVON.** On a stone cistern at a watering place at Binton, *Purt.* ii. 527.  
On a mill wheel at Bidford Grange, in full fruit, *Bree in Purt.* iii. 387.  
I have never seen this moss in any Warwickshire locality. The cistern at Binton is altered into a modern drinking fountain, and there is no trace of the moss now.

FONTINALIS. *Dill.***F. antipyretica**, *Linn.*

Native; streams and pools, attached to woodwork. Local. Very rare in fruit. June.

1. **TAME.** Hill Hook, near Sutton; Butler's Wood; Harding's Wood; Water's Wood, near Maxstoke; in the Anker, Rye Hills; Arbury; in fine fruit in a pool near Weddington; Spring Pools, near Kenwalsey; small pool at Waring's Green; pool near Birchy Leasowes; and Earlswood Reservoir.
2. **AVON.** Small pool near Stratford-on-Avon; Oxford Canal, near Brinklow; abundant, stream on Wimpstone Fields; Barton-on-the-Heath; near Oxhill; Halford; Fullready; Halford Bridge; in the Alne, near Holywell.
3. **CHERWELL.** In good fruit, Wormleighton Reservoir.

## ORD. XVII. CRYPTHÆACEÆ.

HEDWIGIA. *Ehrh.***H. ciliata**, *Dicks.*

Native; sandstone walls. Very rare. March.

1. **TAME.** Arbury, *Kirk!*

I have seen authentic specimens from this locality collected by *Mr. T. Kirk*, but have not succeeded in finding it there myself.

CRYPTHÆA. *Mohr.***C. heteromalla**, *Hedw. Neckera*, *Purt.*

Native; on trees. Local. April-May.

2. AVON. In a thicket at Alcester Mill, *Purt.* ii. 524. Allesley, *Bree in Purt.* iii. 387. On ash and elm trees, bridle road from Burton Dassett to Chadshunt; near Kineton; Wolstone Heath; Sherborne; near Stratford-on-Avon; Fenny Compton; between Offchurch and Birdingbury, frequent; near Napton-on-the-Hill; Eatington; Ilmington; Oxhill; Barton-on-the-Heath; Whatcote; Idlicote.
3. CHERWELL. Farnborough; Warmington.

## SECTION IV. PLEUROCARPI.

## ORD. XVIII. LEUCODONTACEÆ.

LEUCODON. *Schw.***L. seiuioides**, *Linn.*

Native; trees. Locally common. Barren.

1. TAME. Near Anker Bridge; near Wolvey; Copt Heath; Solihull; Hampton-in-Arden.
2. AVON. Chadshunt; Chesterton; Oakley; Walton; Wasperton; Sherborne; Compton Verney; Barford; Hatton Rock; Brandon; Harbury; Fenny Compton; Birdingbury; Princethorpe; Cubbington; Whichford; Great Wolford; Eatington; Oxhill; Whatcote; Drayton Bushes; Ipsley; Wetherley; Ragley; Exhall.
3. CHERWELL. Farnborough; Warmington; Avon Dassett; Wormleighton.

## ORD. XIX. NECKERACEÆ.

NECKERA. *Hedw.***N. complanata**, *Linn.*

Native; trees and banks. Locally common. Fruit not observed. November.

1. TAME. Hoare Park; Bentley Wood; Bulkington; Burton Hastings; Weddington; Maxstoke; Knowle; Solihull.
2. AVON. Oakley; Barford; Fenny Compton; Princethorpe; Ladbrook; Stivichall; Combe Fields; Oxhill; Tysoe; Compton Wynates; Full-ready; Eatington; Whatcote; Ipsley.
3. CHERWELL. Farnborough; Warmington, &c.

HOMALIA. *Brid.***H. triehomanoides**, *Schreb.* *Omalia*, Bry Brit. *Hypnum*, *Purt.*

Native; trees and damp banks. Local. Rare in fruit. November.

1. TAME. School Rough, Marston Green; Bulkington; Solihull, near Bentley Heath.

2. AVON. Allesley, common, *Purt.* iii. 104. Chesterton Wood, in fruit; Rowington, footway to Wroxall Abbey; trees by the Arrow near Washford Bridge; lane from Tanworth to Alderhanger; lane from Long Compton to Barton-on-the-Heath, in fruit.
3. CHERWELL. Footway from Warmington to Avon Dassett.

[*Hookeria lucens*, which was found at Moseley by the late Mr. Westcott, may also be found in Warwickshire.]

## ORD. XX. LESKEACEÆ.

### LESKEA. *Hedw.*

#### **L. polycarpa, Ehrh.**

Native; tree roots near water. Locally common. May.

1. TAME. Forge Mills; near Kingsbury; Rye Hills; Shuttington; Mancetter; Grendon; Henfield; Bradnock's Marsh; Ryton End; Earlswood.
2. AVON. Edge Hill; Drayton Dassett; Chadshunt; Fenny Compton; Kineton; Pedlar's Bridge, near Brinklow; Oxhill; Wimpstone Fields; Little Wolford; lane, Long Compton to Barton-on-the-Heath; near Crab's Mill, Preston Bagot; Holywell; Aston Cantlow; Ipsley; Washford Bridge; Sperrall; Arrow; Ragley.
3. CHERWELL. Footway from Farnborough to Warmington.

Var. *β. paludosa*. Bridle road to Spring Coppice, Tamworth; Wimpstone Fields.

### ANOMODON. *Hook.*

#### **A. viticulosus, Linn.**

Native; tree roots. Local. Very rare in fruit. April-May.

1. TAME. Abundant on tree roots by the Bourne, Arley, in fruit, May, 1884.
2. AVON. Ash trees near Sherborne; Oxhill; Wimpstone; Copt Green near Lapworth Street; lane from Kingswood to Wroxall Abbey; near Crab's Mill, Preston Bagot; Holywell; near the Bird-in-Hand, Henley-in-Arden; Aston Cantlow; abundant by the Arrow, Arrow Village; walls. Whichford; banks, lane from Long Compton to Barton-on-the-Heath.
3. CHERWELL. Bridle road from Edge Hill to Avon Dassett.

### THUIDIUM. *Schpr.*

#### **T. tamariscinum, Hedw. *Hypnum*, Bry. Brit.**

Native; marly banks and woods. Frequent. Very rare in fruit. November.

1. TAME. Sutton Park; Middleton; Kingsbury; Bentley Park; Hartshill Hayes; Weddington; Arbury; Olton; Knowle; Solihull; Earlswood, &c.

2. AVON. Oakley Wood; Compton Verney, in fruit; Ufton Wood; Combe Woods; Princethorpe; Oxhill; Tysoe; Wolford; Rowington; Austey Wood; near Wootton Wawen; Oversley Wood; Ipsley; Ragley.
3. CHERWELL. Fox Cover, Farnborough; Wormleighton.

## ORD. XXI. HYPNACEÆ.

### THAMNIUM. *Schpr.*

**T. alopecurum**, *L. Isothecium*, Bry Brit. *Hypnum*, Purt.

Native; banks, woods, coppices. Local. Rare in fruit. November.

1. TAME. Maxstoke Churchyard, abundant; Harding's Wood, near Maxstoke; Shawberries Wood, Shustoke; Solihull; Hartshill Hayes; Kingsbury Wood.
2. AVON. Upon the river bank leading from Oversley to the mill, *Purt.* ii. 557. Edge Hill; Alveston Pastures, in fruit; Whichford Wood; Wolford Wood; near Whitehouse, Tysoe; small copse near Rowington, in fruit; Haywood; Wootton Wawen; Drayton Bushes, in good fruit; very fine form, lane from Yarningale Common to Holywell; Banum's Wood, Morton Bagot; Oversley Wood.
3. CHERWELL. Near Avon Dassett.

### CLIMACIUM. *Brid.*

**C. dendroides**, *Linn. Hypnum*, Purt.

Native; bogs, marshes, and wet places. Rare. Barren.

1. TAME. Sutton Park; wood near Erdington; lane from Four Ashes to Box Trees, Shirley.
2. AVON. Cold Comfort (near Alcester), *Purt.* ii. 558. Allesley, *Kirk!* Canal siding near Holywell.

### PYLAISIA. *Brid.*

**P. polyantha**, *Schreb. Leskea*, Bry. Brit.

Native; on trees in woods. Very rare. Barren.

1. TAME. On trees in Frogmore Wood, near Temple Balsall.

### ISOTHECIUM. *Brid.*

**I. myurum**, *Poll. Hypnum curvatum*, Purt.

Native; on trees and in woods. Local. Rare in fruit. November.

1. TAME. Plant's Brook, near Curdworth; banks of the Anker, Grendon; trees near Parley Park; Weddington Wood; Bulkington, near the railway; wood near Knowle Hall.

2. AVON. Common about Allesley, *Bree in Purt.* iii. 103. In fruit, Chester-ton Wood; in fruit. wild lane from Bretford to Brinklow; Wolford Wood; Barton-on-the-Heath; Haywood; Holywell; Bearley Bushes; Combe Woods; Banum's Wood, Morton Bagot; large form in Wolford and Whichford Woods.
3. CHERWELL. Bridle road from Farnborough to Warmington, &c.

### HOMALOTHECIUM. *Schpr.*

**H. sericeum**, *Linn.* *Leskea sericea*, Bry. Brit.

Native; walls, trees, thatch, &c. Frequent. November to March.

1. TAME. Sutton Park; Middleton; Kingsbury; Shuttington; Mancetter; Seckington; Hartshill; Wolvey; Solihull; Shirley, &c.
2. AVON. Oakley; Birdingbury; Combe Fields; Tysoe; Oxhill; Wootton Wawen; Morton Bagot.
3. CHERWELL. Warmington; Farnborough.

### CAMPTOTHECIUM. *Schimp.*

**C. lutescens**, *Huds.* *Hypnum*, Bry. Brit. *Purt.*

Native; banks in marl or lias districts. Local. Barren.

2. AVON. Cleve Bank, opposite Salford, *Purt.* iii. 98. Near Ufton Village; Eatington; Wimpstone; Ilmington; Little Wolford; Henley-in-Arden, abundantly; Bearley canal siding; near Claverdon; Oversley Wood.

### SCLEROPODIUM. *Schimp.*

**S. caespitosum**, *Wils.* *Hypnum*, Bry. Brit.

Native; roots of trees and palings, near water. Local. Rare in fruit. November.

1. TAME. Bank of pool by Middleton Park; near Curdworth Bridge; foot-way near Birch Coppice, Polesworth; Shuttington Bridge; trees by the Anker, Grendon; trees near Bulkington Railway Station; trees near Forge Mills; stream near Henfield, Knowle; trees by the Blythe, Ryton End.
2. AVON. In fruit, trees, lane from Bretford to Brinklow; near Baginton; Pedlar's Bridge, near Brinklow; Willenhall; in fruit, trees by stream near Crab's Mill, Preston Bagot; near Birtley Rough; banks of the Alne, near Aston Cantlow; near Holywell, on footbridge; on alders, near Marl Cliff; near Edge Hill; tree roots, Ipsley; Sperrall; near Ragley Park; Ilmington; Little Wolford.
3. CHERWELL. Near Farnborough Hall.

**S. illecebrum**, *Schw.* *Hypnum*, Bry. Brit.

Native; banks. Very rare. Barren.

2. AVON. Abundant on a bank near Sperrall Ash, Studley, 1886.

**BRACHYTHECIUM.** *Schmp.***B. salebrosum**, *Hoffm. Hypnum*, Bry. Brit.

Native; marly and sandy banks. Rare. Barren.

1. TAME. Field by Kingsbury Wood.
2. AVON. Ilmington; sandpit, footway from Crab's Cross to Ipsley; fields, Morton Bagot; field by Coughton Park.

**B. glareosum**, *B. and S. Hypnum*, Bry. Brit.

Native; marly and grassy banks. Rare. November.

1. TAME. Banks of the Anker, near Grendon; Hampton-in-Arden.
2. AVON. By Waverley Wood, Stoneleigh; marly banks, Princethorpe; Morton Bagot; Snowford Bridge; high banks, Stratford Road, near Henley-in-Arden; near the Bird-in-Hand, Henley-in-Arden; marly banks near Rose Hall, Oversley; Wolford Wood; footways, Lower Easington; Bubbenhall; Combe Wood, 1889.

**B. albleans**, *Neck. Hypnum*, Bry. Brit.

Native; grassy places. Local. Barren.

1. TAME. Near Upper Witton Reservoir; Sutton Park, by Keeper's Pool; Ironstone Wood, Oldbury; banks, footways from Oldbury Hall to Mancetter; footways near Birch Coppice, Polesworth; very abundant on the borders of a pine wood, Coleshill Heath.
2. AVON. Pasture by Waverley Wood, Stoneleigh; near Whitley Abbey; lane from Coughton to Sambourn; near Wolford Wood.
3. CHERWELL. Quarry, near Avon Dassett.

**B. velutinum**, *Linn. Hypnum*, Bry. Brit.

Native; banks, waysides, fields, &c. Common, and generally distributed. November.

**B. rutabulum**, *Linn. Hypnum*, Bry. Brit.

Native; banks, waysides, fields, &c. Common, and generally distributed. November.

***β. longisetum***, Bry. Eur.

1. TAME. Hartshill Quarries; near Ironstone Wood, Oldbury.

Var. *robustum*, Bry. Eur.

1. TAME. Sutton Park; Parley Park; near Seckington; Hartshill Quarries; Olton.
2. AVON. Canal siding, near Rugby; Lower Easington; Wolford Wood.
3. CHERWELL. Wormleighton.

**B. rivulare**, *B. and S. Hypnum*, Bry. Brit.

Native; drains. Rare. November.

1. TAME. Roots of trees in water, Henfield, Knowle; banks of the Anker, Grendon; Bentley Park.

2. AVON. In a drain, canal bank, near Holywell; stone coping of canal near Harborough Magna, in good fruit; Whichford Wood; near the base of Edge Hill, Warwick Road.

**B. populeum, Hedw.**

Native; walls, sandstone rocks, trees. Rare. November.

1. TAME. Merivale Park; Olton, canal bank; Tythall Lane, Solihull.

**EURHYNCHIUM. Schmp.**

**E. myosuroides, Linn. Isoetecium, Bry. Brit.**

Native; trees, rocks, and banks. Local. November.

1. TAME. Lane by Parley Park; Hartshill Hayes; Wolvey.
2. AVON. On ash trees, Sherborne; Edge Hill; Chesterton Wood; Alveston Pastures; Barton Coppice; Wolford Heath; Wolford Wood, in fruit; Whichford Wood; Haywood; Bearley Bushes.
3. CHERWELL. Near Avon Dassett; near Fenny Compton.

**E. striatum, Schreb. Hypnum, Bry. Brit.**

Native; woods and shady banks. Local. November.

1. TAME. Seas Wood, Arbury; Harding's Wood, Maxstoke; Kingsbury Wood; Solihull; Shirley; Birchy Leasowes, near Earlswood.
2. AVON. Chesterton Wood, in fruit; Friz Hill Wood, Walton; Princethorpe and Princethorpe Wood; Great Wolford Wood; Whichford Wood; near Henley-in-Arden; Snitterfield, and Bearley Bushes; Drayton Bushes; lane near Stooper's Wood, Wawen's Moor; Banum's Wood; Wire Hill and Rough Hill Woods, Sambourn; Coughton Park; in fruit, Edge Hill Wood.

**E. pilliferum, Schreb. Hypnum, Bry. Brit.**

Native; woods and shady banks. Local. Barren.

1. TAME. Railway bank, Baddesley Ensor; Merivale; Weddington; Arbury; Olton canal siding.
2. AVON. Edge Hill; Friz Hill Wood, Walton; wood near Oakley; marly bank near Princethorpe; Corley Rock; Wolford Wood; railway near Atherstone-on-Stour; Whichford Wood; canal cutting, Shrewley Common; high banks near Henley-in-Arden; banks near Snitterfield Bushes; footways near Boot Inn, Lapworth; banks near High Cross; Traps Green, Tanworth.

**E. speciosum, Brid.**

Native; tree roots near water. Very rare. January.

1. TAME. Coppice by Windley Pool, Sutton Park, in fruit 1870.

**E. Swartzii, Turn. Hypnum, Bry. Brit.**

Native; banks and waysides. Locally common. Rare in fruit. November.

1. **TAME.** Hill Hook ; Sutton Park ; coppice near New Park, Middleton ; Shuttington ; Newton Regis ; Weddington ; Wolvey ; Attlebury Fields ; Henfield, Knowle.
2. **AVON.** Near Kineton ; Fosseway, Compton Verney ; Fosseway, near Bretford ; Whichford Wood ; Tysoe ; Fullready ; Honington ; Wimpstone ; Atherstone-on-Stour ; Drayton Bushes ; Ipsley ; Ragley ; near Bearley ; near Bascote Lodge.
3. **CHERWELL.** Compton Quarry, Avon Dassett ; Farnborough ; Wormleighton.

**E. prælongum, Dill.** *Hypnum*, Bry. Brit.

Native ; banks, fields, woods, &c. Common and generally distributed. November.

Var. *β. Stokesii* (Turn.) Rare and local.

2. **AVON.** Edge Hill Wood ; Whichford Wood ; Great Wolford Wood ; near Atherstone-on-Stour ; Bearley Bushes ; All Oaks Wood, Cathiron Lane.

**E. pumilum, Wils.** *Hypnum*, Bry. Brit.

Native ; shady marly banks. Rare. November.

1. **TAME.** Bank near Middleton ; Gully Gap, near Stockingford ; Olton, canal bank ; near Solihull, on the road to Bentley Heath.
2. **AVON.** High banks near Henley-in-Arden ; Cubbington Heath ; Waverley Wood ; Wilmcote ; Steeple Hill, near Bidford.

**E. abbreviatum, Schimp.**

Native ; banks. Very rare. November.

2. **AVON.** Little Wolford.

**E. Teesdalli, Sm.** *Hypnum*, Purt. Bry. Brit.

Native ; stones in streams and moist shady places. Very rare. March-April.

1. **TAME.** On stones in a stream in Bentley Park, 1885.
2. **AVON.** In a moist shady place between Oversley Green and the Mill, *Purt.* ii. 558.

**RHYNCHOSTEGIUM. Schpr.**

**R. tenellum, Dicks.** *Hypnum*, Bry. Brit.

Native ; walls and wall tops. Rare. December.

1. **TAME.** Stone walls near the church in Merivale Park, 1884 ; stone coping and brickwork of a railway bridge near Marston Green.

**R. confertum, Dicks.** *Hypnum*, Bry. Brit.

Native ; shady banks, trees, and woods. Local. October.

1. **TAME.** Sutton Park ; Gully Common ; Stockingford ; Weddington ; Caldecote ; Baddesley Ensor ; Copt Heath ; Solihull, in the Warwick Road ; Kenwalsey ; Henfield, near Knowle ; Earlswood. A form of this species with complanate foliage occurs in a bank in the road from Olton to Sheldon. This is probably var. *β. serrulatum*, Turn.

2. AVON. Stivichall; Combe Fields; near Studley; near Ilmington; Crab's Mill, Preston Bagot.

**R. murale**, *Hedw. Hypnum*, Bry. Brit.

Native; walls and bridges. Local, but widely spread. November.

1. TAME. Abundant by Hartopp's Park wall, Sutton Park; stone walls near New Fillongley Hall; Fillongley; walls near Arley Railway station; milestone near Islington, Baddesley Ensor; bridge over Anker, near Mancetter; Weddington Village; Seas Wood, Arbury; footway from Acocks Green to Sheldon; walls near Shustoke Village; Kenwalsey.
2. AVON. Allesley, *Bree in Part.* iii. 106. Bridge near Tysoe; stone walls, Ilmington; Barber's Coppice, Wolford; Tanworth churchyard wall.
3. CHERWELL. Wall of bridge, Avon Dassett.

A variety of this, with closely imbricate leaves, occurs on sandstone walls as at Tipper's Hill, near Arley, and Ilmington. This appears to be var. *c. julaceum*, Schimper. Altitude at Ilmington, 800ft.

**R. ruscifolium**, *Neck. Hypnum*, Bry. Brit.

Native; stones near streams and waterfalls, walls, damp places. Frequent. November.

1. TAME. Sutton Park; Middleton; Curdworth Bridge; Kingsbury; Bentley Park; Mancetter; Weddington; Caldecote; Spring Pools, Kenwalsey; Solihull; Earlswood.
2. AVON. Oversley Mill! in abundance, *Part.* iii. 105. Stoneleigh, stones in the river; Tysoe; White House; Whatcote; Cherrington; Whichford; Holywell; Ipsley; Spennall.
3. CHERWELL. Wormleighton.

**PLAGIOTHECIUM.** *Schpr.*

**P. latebricola**, *Wils. Leskea*, Bry. Brit.

Native; on decayed stems of *Valeriana sambucifolia*. Very rare. Barren.

1. TAME. Windley Pool, abundant in 1868; Water's Wood and Shawberries Wood, Shustoke, 1880.

These have been carefully compared with authentic specimens from Dr. Lindberg, and are identical with them.

**P. denticulatum**, *Linn. Hypnum*, Bry. Brit.

Native; damp banks and woods. Frequent. July.

1. TAME. Sutton Park; Middleton; Kingsbury; Bentley Park; Hartshill Hayes; Griff Hollows; Caldecote; Maxstoke; Coleshill; Solihull; Earlswood, &c.
2. AVON. Oakley Wood; Friz Hill Wood; Ufton; Combe Woods; Tysoe; Oxhill; Haywood; Spennall; Farnborough; Alderhanger, near Tanworth.

**P. Borrerianum**, *Spruce. H. elegans*, Hook., Bry. Brit.

Native; dry banks in woods. Rare. November.

1. **TAME.** Sutton Park, in several places; woods near Shustoke; Bentley Park, in fruit; Griff Hollows; wood near Maxstoke.
2. **AVON.** Birtley Rough, near Brandon.

**P. sylvaticum, Linn. *Hypnum*, Bry. Brit.**

Native; moist banks and woods. Rare and local. September.

1. **TAME.** Near Powell's Pool, Sutton Park, in fruit, 1870; Hartshill Hayes; Weddington; Gulley Common near Stockingford; Kingsbury Wood; banks, Shirley Heath; Berkswell.
2. **AVON.** Bearley; Coughton Park; Corley Rock.

**P. undulatum, Linn. *Hypnum*, Bry. Brit., Purt.**

Native; damp banks, woods, heathlands. Local. Barren.

1. **TAME.** Coleshill! *Bree in Purt.* iii. 106. Sutton Park; Trickley Coppice; Hartshill Hayes; Weddington; near Oldbury; Hill Bickenhill.
2. **AVON.** Allesley, *Bree in Purt.* iii. 106. Spennall; Morton Bagot.

**AMBLYSTEGIUM. Schpr.**

**A. serpens, Linn. *Hypnum*, Bry. Brit.**

Native; banks, roots of trees, damp walls. Common, and generally distributed. May.

A large form, with strongly nerved leaves, occurs in Sutton Park, near Windley Pool, and in other Warwickshire localities.

**A. radicale, P. Beauv. *Hypnum*, Bry. Brit.**

Native; roots of trees near water. Rare. May.

1. **TAME.** Roots of alders near Windley Pool, Sutton Park, 1876.
3. **CHERWELL.** Wormleighton Reservoir, May, 1887.

**A. irriguum, Wils. *Hypnum*, Bry. Brit.**

Native; damp stones and brickwork near water. Rare. May.

1. **TAME.** Sutton Park; stream in Bentley Park; canal siding near Grendon.
2. **AVON.** Damp footpaths near Princethorpe; Ilmington; Little Wolford; lane by Stoooper's Wood, Wawen's Moor; banks of stream, Umberslade Park; in fruit, lane near Upper Spennall; Ipsley; old pit near Newbold-on-Avon.
3. **CHERWELL.** Wormleighton.

**A. fluviatile, Swartz. *Hypnum*, Bry. Brit.**

Native; woodwork near water. Very rare.

1. **TAME.** On a water wheel in Sutton Park, fairly abundant, January, 1877.

**A. riparium, Linn. *Hypnum*, Bry. Brit.**

Native; stones and woodwork near water. Local. April.

1. TAME. Hill Hook ; Sutton Park ; New Park ; Kingsbury Wood ; canal siding near Grendon ; near Newton Regis ; Harding's, Water's and Butler's Woods, near Maxstoke ; Over Whitacre ; Olton ; Solihull ; Earlswood.
2. AVON. Near Bretford ; Cathiron Lane, Rugby ; Fenny Compton ; Sow Waste ; Halford ; Wimpstone ; Barton-on-the-Heath ; Wilmcote ; Washford.
3. CHERWELL. Farnborough ; Wormleighton.

Var. *β. longifolium*, Brid. Very local, or rare.

1. TAME. The Grange, Erdington, *J. B. Stone!* Well by Powell's Pool, and stream, Windley Pool, Sutton Park ; Harding's Wood, near Maxstoke ; Hartshill Quarries.
2. AVON. Pool near the Fosseyway, Bretford, in abundance ; All Oaks Wood, Cathiron Lane, very abundant, 1890 ; Itchington Holt ; near Shipston-on-Stour ; Halford.

This has the habit and appearance of *Fontinalis*, and is usually barren.

### HYPNUM. *Dill.*

#### *H. aduncum*, *Hedw.*

Native ; marshes and near pools. Rare. May.

1. TAME. In fruit, Sutton Park, *H. Webb!* Long Moor Mill Pool, Sutton Park ; Baddesley Common ; near Mancetter, road from Nuneaton.
2. AVON. Near Bidford Grange, *Bree in Part.* iii. 102. Lane by Stoooper's Wood, Wawen's Moor.

Var. *β. Kneiffii*, Bry. Eur. Rare.

1. TAME. Pool on Bradnock's Marsh.
2. AVON. Pool on Bardon Hill ; Wimpstone Fields ; lane by Stoooper's Wood, Wawen's Moor.

#### *H. exannulatum*, *Gümb.* *H. aduncum*, Bry. Brit.

Native ; marshes. Rare. April-May.

1. TAME. Abundant near Keeper's and Windley Pools, Sutton Park ; by pool on Baddesley Common ; marsh near Packington Park ; marsh near Blythe Bridge, Solihull.
2. AVON. Wimpstone Fields.

#### *H. vernicosum*, *Lindb.* *H. pellucidum*, Wils., MSS.

Native ; marshes. Very rare. Barren.

1. TAME. Windley Pool, with fertile flowers ; Bracebridge Pool, Sutton Park.

#### *H. Cossoni*, *Schimp.* *H. intermedium*, *Lindb.*

Native ; marshes. Rare. May.

1. TAME. Sutton Park, by Long Moor Mill Pool ; Bracebridge, Keeper's, and Windley Pools, in fruit, 1878 ; Hill Hook, abundant.
2. AVON. Wimpstone Fields.

**H. Iycopodioides**, *Schw.*

Native ; marshes. Very rare. Barren.

2. AVON. Abundant, Wimpstone Fields, 1887.

**H. Sendtneri**, *Schp.*

Native ; marshes. Very rare. Barren.

1. TAME. Long Moor Mill Pool, 1870.
2. AVON. Pit near Newbold-on-Avon, 1890.

**H. fluitans**, *Linn.*

Native ; pools and slow streams. Local. Rare in fruit. April to June.

1. TAME. Sutton Park, frequent ; small pool near the Entrenched Camp, Seckington ; quarries, Hartshill ; Marston Green ; Blythe Bridge.
2. AVON. In a pit at Bidford Grange, *Bree in Part.* iii. 107. Submersed form, pit near Newbold-on-Avon, 1890 ; pit near Brailes ; abundant on Wimpstone Fields, in half-dry pits ; pit at Sambourn. Form with erect capsules abundant in Sutton Park.

**H. revolvens**, *Swartz.*

Native ; marshes. Very rare. Barren.

1. TAME. Marsh by Earlswood Reservoir.
2. AVON. Wimpstone Fields.
3. CHERWELL. Wormleighton Reservoir.

**H. filicinum**, *Linn.*

Native ; marshes, drains, wet places. Frequent. Rare in fruit. April.

1. TAME. In good fruit, Sutton Park, in several places ; Nether Whitacre ; Freasley ; Arley ; Bentley Park ; Grendon ; Austrey ; Newton Regis ; Caldecote ; Coleshill Pool ; Shirley Heath.
2. AVON. Friz Hill, Walton, in good fruit ; near Princethorpe ; near Stratford-on-Avon ; footways, Oxhill ; good fruit, Lower Easington ; drains, Wimpstone Fields ; Whichford Wood ; Rowington canal siding ; near Henley-in-Arden ; Lapworth ; Trap's Green, Tanworth ; Wawen's Moor ; Spennall ; Morton Bagot.
3. CHERWELL. Wormleighton Reservoir.

In most of the above stations more or less abundantly in fruit.

**H. commutatum**, *Hedw.*

Native ; marshes and near streams. Rare and local. April.

1. TAME. Near most of the pools in Sutton Park ; abundant near the stream through Bentley Park.
2. AVON. Abundant, canal siding near Shrewley Common ; in fruit near Crab's Mill, Preston Bagot.

**H. falcatum, Brid.**

Native; marshes and damp places. Rare. April.

1. TAME. Near several of the pools in Sutton Park; in fruit, April, 1869, at Long Moor Mill Pool.
2. AVON. Moorland by Banum's Wood, Morton Bagot.

**H. cupressiforme, Linn.**

Native; trees, rocks, walls, woods, thatch, &c. Common, and generally distributed. November to March.

Var. *lacunosum*, Wils. *b. tectorum*, Schpr.

1. TAME. Walls, Oldbury Reservoir; Gulley Common; near Caldecote Mill; Bulkington Railway Station; walls near Meriden Shafts.
2. AVON. Edge Hill; Milverton Churchyard wall; White House, Tysoe; near Henley-in-Arden.
3. CHERWELL. Farnborough.

Var. *filiforme*, Bry. Eur. On trees.

1. TAME. Marston Green; near Bulkington; coppice near Four Ashes, Knowle.
2. AVON. Near Compton Verney; Bretford; Combe Fields; Hopsford, near Brinklow; Whichford Wood; Barton Coppice, Wolford Heath; Wimpstone; near Sperrall.
3. CHERWELL. Farnborough.

A form with erect leaves, nearly allied to var. *brevisetum*, Sch., occurs at Corley Rock, near Coventry.

Var. *ericetorum*, Bry. Eur. Heaths.

1. TAME. Heathlands, Parley Park.
2. AVON. Wolford Wood and Heath.

Var. *minus*, Wils. Trees.

2. AVON. Bretford, near Rugby; near Compton Verney.
3. CHERWELL. Near Farnborough.

This is a small golden-leaved form, occurring rarely on trees; always barren.

Var. *elatum*, Bry. Eur. Banks and footways.

1. TAME. Sutton Park; banks near Bulkington.
2. AVON. Yarningale Common; thatched roof, Atherstone-on-Stour; walls, Great Wolford.

**H. resupinatum, Wils.**

Native; trees and walls. Very local. November.

1. TAME. Sutton Park; Hartshill Hayes; Mancetter; Caldecote; Olton; Marston Green; Hampton-in-Arden; near Temple Balsall.
2. AVON. Lane by Whitley Abbey; Crackley Wood; Great Wolford Wood; Tysoe; Allcock's Arbour, Oversley Wood.
3. CHERWELL. Wormleighton; bridle road to Warmington.

**H. patientiæ, Lindb. *H. pratense*, Bry. Brit.**

Native ; damp heathy waysides. Rare. Barren.

1. **TAME.** By Bracebridge Pool, Sutton Park ; footways, near Middleton Hall ; lane near Sharman's Cross, Solihull ; lane, Four Ashes to Hockley ; near Berkswell Railway Station ; near Birch Coppice, Polesworth ; footway, near Earlswood.
2. **AVON.** Bardon Hill, near Stratford-on-Avon ; Wolford Wood ; near the Boot, Lapworth ; Austey Wood ; near the Bird-in-Hand, Henley-in-Arden ; Trap's Green, Tanworth ; Oversley Wood ; Wire Hill Wood, Sambourn.

**H. molluseum, Hedw.**

Native ; marly banks and waysides. Local. Very rare in fruit. November-December.

1. **TAME.** Sutton Park ; Gulley Gap, near Stockingford ; Bentley Park ; near Arley and Astley, in abundance ; Shawberries Wood ; Baddesley.
2. **AVON.** Marl Cliff, near Bidford ; near Stratford-on-Avon ; Bath Wood, near Walton ; marly banks, near Princethorpe ; Wimpstone Fields ; Armscote ; Bearley ; Wawen's Moor ; moorland by Banum's Wood ; Morton Bagot ; Oversley Wood ; in fruit, Wixford, 1875.

**H. palustre, Linn.**

Native ; wood, stone, and brickwork, near water. Rare. May.

1. **TAME.** Abundantly in fruit by old water-wheel, Windley Pool, Sutton Park ; Bracebridge Pool, Sutton Park ; on stones, stream near Brook End, Nether Whitacre ; stones in stream. Bentley Park ; canal side, near Grendon ; on trees, stream, near Henfield, Knowle.
2. **AVON.** On floodgates of a lock, near Bishopton ; in a drain canal, near Holywell.

**H. elodes, Spruce.**

Native ; marshes. Very rare. Barren.

2. **AVON.** Wimpstone Fields.

**H. chrysophyllum, Brid.**

Native ; marly banks and fields. Local. Barren.

1. **TAME.** Marly field near Fillongley ; Gulley Gap, Stockingford ; footways near Birch Coppice, Polesworth ; Ashby canal bank, near Burton Hastings ; Hampton-in-Arden.
2. **AVON.** Marly pastures near Corley Ash ; Copt Green, near Lapworth ; marly banks, Rowington Canal ; pastures near Henley-in-Arden ; Yarn-ingle Common ; pasture, Morton Bagot ; footway from Bearley Cross to Aston Cantlow.

**H. polygamum, B. and S.**

Native ; swamps and marshes. Rare.

1. TAME. Side of stream near Blackroot Pool, Sutton Park; Harding's Wood, near Maxstoke; near Tythall Lane, Solihull.
  2. AVON. Wimpstone Fields.
- Var. *β. stagnatum*, Wils. Rare.
2. AVON. In a pool at Chadshunt; in a pond near Stratford-on-Avon; pool, Itchington Holt.

**H. stellatum**, Schreb.

Native; marshes and wet places. Local.

1. TAME. Hill Hook; near several of the pools in Sutton Park; marshy heathland, Ballard's Green, Arley; Gulley Gap, near Stockingford.
2. AVON. Wimpstone Fields; lane by Stoooper's Wood, Wawen's Moor; lane near Upper Spennall; moorland by Banum's Wood, Morton Bagot; marly bank, Wixford.

**H. cordifolium**, Hedw.

Native; marshes and bogs. Rare. May.

1. TAME. Canal side, Plant's Brook, *J. B. Stone!* Near Bracebridge, Windley, and Long Moor Mill Pools, Sutton Park, in good fruit; abundant, marshy ground near Shuttington; sand quarry, Cornets End, near Berkswell, in fruit; Forshaw Heath.
2. AVON. Binley, near Coventry, in fruit; Wimpstone Fields; Barton Flat Covert.

**H. giganteum**, Schpr.

Native; marshes and pools. Rare.

1. TAME. Windley Pool, 1870-86; Long Moor Mill, Bracebridge, and Keeper's Pools, Sutton Park. (Pool by the railway, Acocks Green.)
2. AVON. Wimpstone Fields.

**H. cuspidatum**, Linn.

Native; marshes, bogs, wet footways and banks. Common, and generally distributed. April.

**H. Schreberi**, Ehrh.

Native; heaths, woods, and banks. Local.

1. TAME. Sutton Park, abundantly; Baxterley and Baddesley Commons; Bentley Park; Hartshill Hayes; Ryton, near Bedworth; pine wood, Colehill Heath; near Packington; Marston Green; Hampton-in-Arden; Solihull; near Earlswood.
2. AVON. Woods beyond Cold Comfort, *Purt.* ii. 560. Birtley Rough, near Brandon; Wimpstone Fields; near Cubbington; Coughton Park; Corley Rock; Chalcot Wood; Alderhanger, near Tanworth.

**H. purum**, Linn. *Hypnum*, Bry. Brit.

Native; heaths, woods, and banks. Common, and generally distributed. December. In fruit on a bank near Solihull, January, 1871.

**H. stramineum**, *Dicks.* *Hypnum*, Bry. Brit.

Native ; marshes and bogs. Rare.

1. TAME. Plentiful near Long Moor Mill Pool, also sparingly at Bracebridge. Blackroot, and Windley Pools, Sutton Park.

**HYLOCOMIUM.** *Schpr.***H. splendens**, *Dill.* *Hypnum*, Bry. Brit.

Native ; banks and woods. Locally common. April.

1. TAME. Bentley Park ; canal bank, Olton ; banks near Blythe Bridge, Solihull ; lane from Four Ashes to Hockley ; Hampton-in-Arden.
2. AVON. Friz Hill Wood, Walton ; Oakley Wood ; Waverley Wood, Stoneleigh ; Birtley Rough near Brandon ; Princethorpe ; Wimpstone ; meadows near Whatcote ; Whichford Wood ; Barton Coppice, Wolford Heath ; Wimpstone ; Rowington ; Shrewley Heath ; Snitterfield Bushes ; Chalcot and Spring Wood near Umberslade ; lane near Wawen's Moor ; Spennall Park ; Coughton Park ; Oversley.
3. CHERWELL. Farnborough, in fruit.

**H. brevirostre**, *Ehrh.* *Hypnum triquetrum* b. *minus*, H. and T., *Purt.*

Native ; marly woods. Very rare.

2. AVON. Woods, Allesley and Meriden? *Bree in Purt.* iii, 97. Wolford Wood, in abundance ; Wire Hill Wood, Sambourn ; Whichford Wood.

**H. squarrosum**, *Linn.* *Hypnum*, Bry. Brit.

Native ; woods, banks, pastures, and waysides. Common, and generally distributed. Fruit rare. November.

In fruit, Sutton Park, 1870 ; Hampton-in-Arden, 1884 ; lane by Weston Wood near Cubbington, 1885 ; Arbury Park, 1870.

**H. loreum**, *Linn.* *Hypnum*, *Purt.*, Bry. Brit.

Native? woods. Very rare.

2. AVON. Woods, Allesley, *Bree in Purt.* iii, 99.  
This is probably an error.

**H. triquetrum**, *Linn.* *Hypnum*, Bry. Brit.

Native ; woods and banks. Locally common. November.

1. TAME. Maney near Sutton ; wood near Moor Hall ; Middleton Wood ; canal bank, Olton.
2. AVON. Birtley Rough near Brandon ; Waverley Wood ; Wimpstone ; Lower Eatington ; near Armscote ; Wolford Wood ; in fruit, lane, Wawen's Moor ; Bearley Bushes ; Oversley.
3. CHERWELL. Farnborough.

## HEPATICÆ.

### ORD. I. MARCHANTIACEÆ.

#### MARCHANTIA. *Linn.*

##### **M. polymorpha, Linn.**

Moist banks and drains. Frequent. Rare in fruit. June-July.

1. TAME. In good fruit, heathland, Sutton Park; Waterworks Reservoir, Aston; on pots, Tropical House, Aston Park; The Grange, Erdington; Shustoke; Grendon; Shuttington; Hampton-in-Arden, &c.
2. AVON. In fruit, banks near Whitley Abbey; Oversley Wood; Coughton Park; Ragley.

#### CONOCEPHALUS. *Necker.*

##### **C. conieus, Linn. *Marchantia*, Purt.**

Sides of streams, damp banks, &c. Frequent. Rare in fruit. March.

1. TAME. Erdington; Sutton Park; Middleton Park; Kingsbury Wood; Shuttington; Hartshill Hayes; abundant in fruit by the Bourne, Arley; Earlswood, &c.
2. AVON. On a ditch bank, Trent Lane to Hoo Mill, *Rufford in Purt. ii. 571*. Banks, Stivichall; in fruit, banks of the Alne near Henley-in-Arden; Wimpstone Fields; Coughton Park; Wire Hill Wood, Sambourn; Whichford; Barton-on-the-Heath; Corley Rock.

#### ASTERELLA. *P. Beauv.*

##### **A. hemisphærica, Linn.**

Banks of streams. Rare.

1. TAME. Stream near Blythe Bridge, Solihull.  
Barren when collected, but afterwards fruiting when grown in a fern case.

#### LUNULARIA. *Michx.*

##### **L. vulgaris, Mich.**

Moist banks and stonework. Local. Barren.

1. TAME. Aston Waterworks grounds; The Grange, Erdington; Sutton Park; lane near Warton; Hampton-in-Arden; banks of the Blythe, Ryton End.
2. AVON. Banks near Whitley Abbey; Coughton.

**RICCIA.** *Mich.***R. glauca,** *Linn.*

Fields and waysides. Local. February to April.

1. TAME. Stubble field at Wishaw; fallow field near Hoare Park, Nether Whitacre; field near Maxstoke Castle; lane near Caldecote Mill; footways near Wolvey; Coleshill Heath; field near Solihull.
2. AVON. Kinwarton; Salford, *Purt.* ii. 573. Fallow field near Leek Wootton; Crackley Lane, near Kenilworth.

**R. glaucescens,** *Carr.*

Banks. Very rare. March.

1. TAME. New railway embankment, Sutton Park, March, 1879.

**RICCIELLA.** *Al. Braun.***R. fluitans,** *Linn. Riccia, Purt.*

Pools. Rare. Barren.

1. TAME. Arbury Park, *Kirk!* Coleshill Pool; small pool on Balsall Common, abundant, 1883.
2. AVON. In a pond on Alne Hills, *Rufford in Purt.* ii. 572. Small pool, lane from Shelfield to Wawen's Moor; shores of pool, near Corley Rectory.

## ORD. II. JUNGERMANNIACEÆ.

**FRULLANIA.** *Raddi.***F. dilatata** (*L.*), *Dum.*

Trees and walls. Common, and generally distributed. Fruit rare. April.

In fruit, canal bridge, Rowington; Compton Verney; Bretford, near Rugby.

**F. Tamarisci** (*Mich.*), *Dum. Jungermannia, Purt.*

Trunks of trees, and banks. Local. March.

1. TAME. On trees near Solihull.
2. AVON. Ridgeway, *Purt.* ii. 568. Near Long Compton; ash trees, lane from Shrewley Common to Rowington; near Rowington Church. in fruit; Yarningale Common; Morton Bagot.
3. CHERWELL. Farnborough.

**RADULA.** *Dumortier.***R. complanata,** *Linn.*

Trunks of trees, and banks. Local. March-April.

1. TAME. Shustoke ; Hampton-in-Arden ; Solihull.
2. AVON. Lane near Chesterton Mill ; Friz Hill, Walton ; road from Alcester to Stratford-on-Avon ; lane near Stivichall ; Oxhill ; Harbury ; Yarningale Common ; Wolford Wood ; Shrewley Common ; Morton Bagot.
3. CHERWELL. Farnborough.

**PORELLA.** *Dill.***P. platyphylla,** *Linn.*

Tree roots, woods, and banks. Local. April.

2. AVON. Near Kineton ; Compton Verney ; Yarningale Common ; Bearley ; Drayton Bushes ; near Wimpstone ; Morton Bagot ; abundant on wall at Whichford ; near Kineton.
3. CHERWELL. Farnborough.

**LEPIDOZIA.** *Dumort.***L. reptans,** *Linn.*

Banks in woods. Rare.

1. TAME. Sutton Park ; Trickle Coppice ; Bentley Park ; Hartshill Hayes.
2. AVON. Crackley Wood, near Kenilworth.

**CEPHALOZIA.** *Dumort.***C. byssacea** (*Roth*), *Hook.*

Heaths, footways and walls. Rare. April.

1. TAME. Wall tops, intermixed with mosses, near Old Fillongley Hall ; Hartshill.
2. AVON. Marly footway near Kenilworth Heath ; Wire Hill, Sambourn ; Oversley Wood.

**C. divaricata,** *Sm.*

Heathlands and heathy waysides. Rare.

1. TAME. Abundant near Long Moor Mill Pool, Sutton Park ; Baddesley and Baxterley Commons ; Hartshill.
2. AVON. Oversley Wood ; footways, Spring Wood, Hockley.

**C. stellulifera,** *Taylor.*

Heathlands and quarries. Rare.

1. TAME. Sutton Park ; Baddesley Common ; Bentley Park ; Hartshill Quarries ; footways, Spring Wood, Hockley.

**C. bleuspidata, Linn.**

Marshes, bogs, damp heaths. Frequent. March-April.

1. TAME. Sutton Park; Trickle Coppice; Kingsbury Wood; Bentley Park; Hartshill; Coleshill Pool; Shirley Heath; Earlswood.
2. AVON. Oakley Wood; Harbury Heath; Corley Rock; Sow Waste; Combe Fields; Wimpstone Fields; Spring Wood, near Earlswood; Rowington canal siding; near Tanworth; Wire Hill, Sambourn.
3. CHERWELL. Farnborough, &c.

**C. curvifolia, Dicks. *Jungermannia*, Purt.**

Marshy heaths. Very rare.

1. TAME. Coleshill Heath, *Bree in Purt.* iii. 113.

This is probably an error, forms of *C. bicuspidata* having been mistaken for it.

**C. connivens, Dicks.**

Damp heaths. Very rare. April.

1. TAME. On an old tree stump above Blackroot Pool, Sutton Park, April, 1883, by Streetley Hill.

**LOPHOCOLEA. Dumort.****L. bidentata, Linn.**

Woods, banks, heathlands. Frequent. March-April.

1. TAME. Sutton Park; Kingsbury Wood; Bentley Park; Solihull, &c.
2. AVON. Oakley Wood; Princethorpe; Combe Woods; Wolford Heath; Rowington; Oversley, &c.

Var. *b. cuspidata*, Gottsche.

Woods and heaths. Local, or overlooked. April.

1. TAME. Hoare Park; Shawberries Wood; quarries, Hartshill; Bentley Park; Gulleys Common; Shuttington; Bulkington; Close Wood, Kenwalsey.
2. AVON. Birtley Rough, near Brandon; Ipsley; Wire Hill, Sambourn; Alderhanger.

**L. heterophylla, Dumort.**

Moist places, decaying wood, tree roots. Frequent.

I have collected this on tree roots in every wood I have visited in Warwickshire.

**CHILOSCYPHUS. Corda.****C. polyanthus, Linn.**

Marshes and moist places. Local. Rare in fruit. July.

1. TAME. Wyld Green; Sutton Park, abundant; Middleton; Shawberries Wood, Shustoke; Bentley Wood; Bannersley Pool; Beardsmore, near Hockley.

2. AVON. In fine fruit, near Waverley Wood, Stoneleigh ; Bearley Bushes ; Rough Hill and Wire Hill Woods, Sambourn ; Oversley Wood ; Coughton Park ; Whichford Wood.

**KANTIA.** *Gray.*

**K. Trichomanis,** *Linn.*

Moist heaths and woods. Local. April.

1. TAME. Sutton Park ; Middleton ; Erdington ; in fruit, Kingsbury Wood ; Bentley Park ; Hartshill Hayes ; Olton ; Solihull ; Hampton-in-Arden ; Earlswood.
2. AVON. On a bank bounding Coughton Park ! and side of ditch, lane from Coughton to Sambourn, *Purt.* ii. 565. Waverley Wood, Stoneleigh ; Oakley Wood ; Crackley Wood ; Wolford Wood ; Chalcot Wood ; Alderhanger ; Haywood ; Wire Hill, Sambourn ; Combe Woods.

**TRICHOCOLEA.** *Dumort.*

**T. tomentella,** *Ehrh.*

Marshy places. Very rare.

1. TAME. Above Blackroot Pool, Sutton Park.

**SCAPANIA.** *Dumort.*

**S. undulata,** *Dill.*

Wet heathlands and roadsides. Rare. April.

1. TAME. With male flowers, near Bracebridge and Windley Pools, Sutton Park ; Marston Green ; near Earlswood ; Holly Lane, near Temple Balsall.
2. AVON. Oversley Wood.

**S. irrigua,** *Nees.*

Marshy places and damp footways. Rare.

1. TAME. Bentley Park ; Baxterley Common ; Four Ashes, near Hockley ; Little Dickens, near Earlswood ; Shirley Heath.
2. AVON. Coughton Park ; Spennall Ash.

**S. nemorosa,** *Linn.*

Marly banks in woods. Rare.

1. TAME. Lower Holly Hurst, Sutton Park ; Close Wood, Meriden ; lane from Four Ashes to Hockley ; abundant in wood, Fulford Heath, near Earlswood.
2. AVON. Near Waverley Wood, Stoneleigh, 1882 ; Oversley Wood, main drive, 1879 ; Wolford Wood.

**DIPLOPHYLLUM.** *Dumort.***D. albicans,** *Linn.*

Woods and marly wet banks. Local. July.

1. TAME. Sutton Park ; Trickley Coppice ; Kingsbury Wood ; Bentley Park ; Hartshill Hayes ; Brown's Wood and Whey-porridge Lane, Solihull ; Barber's Coppice, Hampton-in-Arden ; wood in lane from Four Ashes to Boxtrees, Hockley.
2. AVON. Chesterton Wood ; Corley Moor ; Haywood ; Wolford Wood ; in fine fruit, Chalcot Wood, near Umberslade ; Alderhanger ; Coughton Park ; Oversley Wood ; Combe Woods.

**PLAGIOCHILA.** *Dumort.***P. asplenioides,** *Linn.*

Moist woods and marly banks. Local.

1. TAME. Reddicap Hill, near Sutton ; marly banks near Kenwalsey ; near Hermitage Farm, Packington ; Whey-porridge Lane, Solihull ; Hay Lane, near Hockley ; Shirley Heath ; Close Wood, Kenwalsey.
2. AVON. Friz Hill Wood ; Walton ; Edge Hill Wood ; Crackley Wood, Kenilworth ; Bush Wood, Lapworth ; Allcock's Arbour, near Oversley ; Ragley Woods ; Oversley Wood ; Whichford Wood.

**JUNGERMANNIA.** *Linn.***J. sphærocarpa,** *Hook.*

Damp heaths. Very rare.

1. TAME. Near Rowton Well, Sutton Park ; Holly Lane, Temple Balsall.
2. AVON. Oversley Wood ; Coughton Park.

**J. cordifolia,** *Hook.*

Near water. Very rare.

1. TAME. Bridge over Anker, near Shuttington, in abundance.

**J. ventricosa,** *Dicks.*

Heathlands. Very rare.

1. TAME. Near Blackroot and Bracebridge Pools, Sutton Park.

**J. bicerenata,** *Lindenb.*

Damp footways. Rare. October.

3. CHERWELL. Banks of Wormleighton Reservoir, in fruit, 1887.

**J. inflata,** *Huds.*

Moist heathlands and thatch. Rare. March.

1. TAME. On the thatch of an old out-house, Boldmere Lane ; very abundant on Sutton Common ; Baxterley Common near Atherstone.

**J. turbinata, Rad.**

Rare. Marly damp banks.

2. AVON. Banks of the Avon near Barford.

**NARDIA. Gray.**

**N. scalaris, Schrad.**

Woods, heaths, and waysides. Local. March-April.

1. TAME. Sutton Park; Middleton Heath; Trickley Coppice; Hartshill Quarries; Baddesley Common; Holly Lane, Temple Balsall; Shirley Heath, &c.

**N. crenulata, Sm. *Aploxia*, Dum.**

Moist heaths. Rare. March-April.

1. TAME. Trickley Coppice; Middleton Heath; Holly Lane, Temple Balsall; Salter Street, Earlswood; Fulford Heath; Little Dickens, near Earlswood; Shirley Heath; Sutton Park, above Bracebridge.

**FOSSOMBRONIA. Raddi.**

**F. pusilla, Nees. *Jungermannia*, Purt.**

Marly banks, woods, and fields. Local. October to April.

1. TAME. Marly fields, Wishaw; Shuttington Village; Mancetter; Coleshill Heath; bank by Olton Railway Station; lane from Hampton-in-Arden to Bickenhill; near Brown's Wood, Solihull.
2. AVON. On a wheel rut, Oversley Wood, *Purt.* iii. 113. Whitley Lane; Stivichall; Ipsley; Rough Hill Wood, Sambourn; abundant in Oversley Wood, 1879; stream near Chalcot Wood.

**PELLIA. Raddi.**

**P. epiphylla, Linn. *Jungermannia*, Purt.**

Wet, shady banks, drains, and bogs. Frequent. March-April.

1. TAME. Sutton Park; Middleton; Kingsbury Wood; Caldecote Wood; Bentley Park; Trickley Coppice; Hampton-in-Arden; Earlswood; near Close Wood, Kenwalsey.
2. AVON. On a ditch bank between Aston (Cantlow) and Wilmcote, *Purt.* ii. 563. Whitley Abbey Lane; Corley Rock; Combe Fields; Wimpstone Fields; Wolford Heath; Alderhanger; Bearley Bushes; Rough Hill Wood; Coughton Park; Oversley Wood.
3. CHERWELL. Farnborough.

**P. calycina, Taylor.**

Moist marly banks. Rare. April.

1. TAME. Near Shustoke; near Bentley Park; Gulley Common; Caldecote Wood; Shirley Heath; near Close Wood, Kenwalsey.
2. AVON. Canal siding near Rowington; banks of stream, Wimpstone Fields; Combe Woods.

**ANEURA.** *Dumort.***A. pinguis,** *Linn.*

Marshy and moist places. Rare. April.

1. TAME. Aston Waterworks Grounds; Sutton Park; railway bank near Ironstone Wood, Oldbury; Olton Pool; marsh near Packington.
2. AVON. Rowington canal siding; Rough Hill Wood, Sambourn.

**A. sinuata,** *Dicks.*

Damp heaths and wet banks. Local. March-April.

1. TAME. Waterworks Grounds, Aston; fields by Kingsbury Wood; railway near Baddesley Ensor; Hartshill Quarries; Coleshill Heath; Whey-porridge and Tythall Lanes, Solihull.
2. AVON. Rough Hill Wood, Sambourn.

**A. multifida,** (*Dill.*) *Gray.*

Woods, dripping and wet banks. Local. April.

1. TAME. Aston Waterworks Grounds; shores of Coleshill Pool; Coleshill Heath; near Olton; near Honiley.
2. AVON. Abundant in fruit, Tile Hill Wood; Rowington canal siding; Rough Hill Wood, Sambourn; banks in Sambourn Lane; near Ragley Park.

Var. *b. ambrosioides*, Nees.

1. TAME. Holly Lane, Temple Balsall.

**METZGERIA.** *Raddi.***M. furecata,** (*L.*) *Dum. Jungermannia*, *Purt.*

On trees. Rather frequent.

1. TAME. Shustoke; lane from Wolvey to Shilton; Barber's Coppice, Hampton-in-Arden; near Solihull Hall; lane by Solihull Railway.
2. AVON. In a lane from Studley to Middletown, *Purt.* ii. 564. Compton Verney; near Princethorpe; Whichford; bridle road to Itchington; Stivichall Lane; Crackley Lane; near Rowington; Henley-in-Arden; Yarnigale Common; Preston Bagot; Wawen's Moor; Morton Bagot; Burton Dassett.

**ANTHOCEROS.** *Micheli.***A. punctatus,** *Linn.*

Marly and sandy fields. Rare. October to March.

1. TAME. Field near Over Green, Wishaw; stubble field near Maxstoke Castle; field by Brown's Wood, Solihull.
2. AVON. In a stubble field at Kinwarton, *Purt.* ii. 575. Stubble field by Old Park Wood, Leek Wootton.

**A. lævis,** *Dill.* *A. major*, *Purt.*

Moist, shady places. Rare. May.

1. TAME. Banks, Middleton Village, in good fruit, May, 1883.
2. AVON. Arrow, August 11, 1812, *Purt.* ii. 574.

# LICHENES.

The arrangement adopted in the following list of the Warwickshire Lichens is that of "The Lichen Flora of Great Britain," by the Rev. W. A. Leighton, M.A., 3rd Edition, 1879. The list is mainly compiled from Purton's "Midland Flora," 1817-21, from "The Lichen Flora of Great Britain," and my own notes. My own observations are very incomplete, for whilst I have specimens from nearly every part of the county, I have not had the leisure needful for their correct identification. Some, however, of the more common species are well-known to me, and these are incorporated with the present list. This list is by no means an exhaustive one, but I must leave the more perfect working out of these interesting plants to younger and more able workers.

*Leptogium fragrans*, Sm., Purt.  
*L. palmatum*, Huds., Purt.  
*Sphinctrina anglica*, Nyl., Aylesford.  
*Calicium phaecephalum*, Bor., Purt.  
*C. trichiale*, Ach., var. *ferrugineum*,  
 Bor., Rufford.  
*C. hyperellum*, Ach., Rufford.  
*C. trachelinum*, Ach., Rufford.  
*C. subtile*, Pers., Rufford.  
*Trachylia tympanella*, Fr., Bagnall.  
*Cladonia pyxidata*, Fr., Bagnall.  
 Var. *fimbriata*, Hoffm., Bagnall.  
*C. furcata*, Hoffm., Bagnall.  
*C. squamosa*, Hoffm., Bagnall.  
*C. cornucopioides* ! Fr., Purt.  
*C. digitata*, Hoffm., Purt.  
 Var. *macilentata*, Hoffm., Bagnall.  
*C. sylvatica*, Hoffm., Bagnall.  
*C. rangiferina*, Hoffm., Bagnall.  
*C. uncialis*, Hoffm., Bagnall.  
*Stereocaulon paschale*, Ach., Purt.  
*Usnea barbata*, Fr., f. *1. florida*, Fr.,  
 Purt.  
 f. *2. hirta*, Fr., Bagnall.  
*Alectoria jubata*, Ach., Purt.  
*Evernia furfuracea*, Mann., Power.  
*E. prunastri*, L., Bagnall.  
*Ramalina farinacea*, L., Bagnall.  
*R. fraxinea*, Fr., Bagnall.

*R. fastigiata*, Fr., Bagnall.  
*Cetraria aculeata*, Fr., Bagnall.  
*Peltigera canina*, L., Bagnall.  
*P. rufescens*, Hoffm., Bagnall.  
*P. polydactyla*, Hoffm., Bagnall.  
*Sticta pulmonacea*, Ach., Bree.  
*Parmelia caperata*, L., Bagnall.  
*P. olivacea*, L., Bagnall.  
*P. lanata*, L., Purt.  
*P. physodes*, L., Bagnall.  
*P. perlata*, L., Bagnall.  
*P. tiliacea*, Ach., Blox.  
*P. conspersa*, Ehrh., Bagnall.  
*P. saxatilis*, L., Bagnall.  
*Physcia parietina*, L., Bagnall.  
*P. ciliaris*, L., Bagnall.  
 forma, *actinota*, Ach., Bagnall.  
*P. pulvinata*, Schreb., Bagnall.  
 f. *pityrea*, Ach., Purt.  
*P. stellaris*, L., Bagnall.  
 Var. *tenella* (Scop.), Bagnall.  
 „ *casia* ! (Hoffm.), Purt.  
*Pannaria pezizoides* (Web.), Bagnall.  
*P. nigra*, Huds., Purt.  
*Placodium murorum*, Hoffm., Bagnall.  
*Lecanora candelaria*, Ach., Purt.  
*L. glaucocarpa*, Whimb., forma *pruinosa*,  
 Sm., Blox.  
*L. parella* ! L., Purt.

- L. rupestris* (*Scop.*), forma *calva* (Dicks), Purt.  
*L. varia* ! *Ehrh.*, Purt.  
     forma *symmicta* (Ach.), Bagnall.  
*L. atra* (*Huds.*), Bagnall.  
*L. circinata* ! (*Pers.*), Purt.  
*L. sulphurea* (*Hoffm.*), Purt.  
*L. subfusca* (*L.*), Bagnall.  
     forma *parisiensis*, Nyl., Bagnall.  
     ,, *albella* ! *Pers.*, Rufford.  
*L. calcarea* (*L.*), forma *Hoffmanni* (Ach.), Purton.  
*L. ferruginea* (*Huds.*), Rufford.  
*L. pyracea* (*Ach.*), var. *ulmicola* ! (DC.), Rufford.  
     var. *holocarpa* (*Ehrh.*), Rufford.  
*L. arenaria* (*Pers.*), Rufford.  
*L. sophodes* (*Ach.*), Rufford.  
*Pertusaria communis* ! DC., Purton.  
*P. fallax* ! (*Pers.*), Purton.  
*P. faginea* (*L.*), Bagnall.  
*P. globulifera* (*Turn.*), Purton.  
*Phlyctis agelæa* (*Ach.*), Rufford.  
*Lecidea flexuosa* (*Fries.*), var. *aruginosa*, Bor. Leighton.  
*L. dubia*, Bor., Rufford.
- L. querneæ* ! (*Dicks.*), Rufford.  
*L. viridescens* (*Schrad.*), Purton.  
*L. parasema* (*Ach.*), Bagnall.  
*L. canescens* (*Dicks.*), Bagnall.  
*L. myriocarpa* (DC.), Bagnall.  
*L. Ehrhartiana* (*Ach.*), Rufford.  
*L. tricolor* (*With.*), Rufford.  
*L. albo-atra* (*Hoffm.*), Rufford.  
     forma *epipolia* (Ach.), Rufford.  
*L. rubella* (*Ehrh.*), Purton.  
*Graphis elegans* (Sm.), Purton.  
*G. scripta* (Ach.), Bagnall.  
     var. *serpentina* (Ach.), Bagnall.  
*G. dendritica* (Ach.), Purton.  
*G. sophistica*, Nyl., var. *pulverulenta* (Sm.), Bloxam.  
*Opegrapha atra*, *Pers.*, Bagnall.  
*O. varia*, *Pers.*, Bagnall.  
*O. lyncea* (Sm.), Bloxam.  
*Arthonia astroidea*, Ach., Bagnall.  
*A. Swartziana*, Ach., Bagnall.  
*A. pruinosa*, Ach., Bagnall.  
*Verrucaria gemmata*, Ach., Bloxam.  
*V. epidermis* ! Ach., Purton.  
*V. nitida* ! *Weig.*, Rufford.

# F U N G I .

BY W. B. GROVE, M.A., AND J. E. BAGNALL, A.L.S.

In publishing this list of the Fungi of Warwickshire, our aim has been to place on record all that has been done by past and present workers in the study of the Warwickshire Hymenomycetes and Gastromycetes, so far as our knowledge extends.

The list must be far from complete, as only portions of the county have been worked, and those portions far from exhaustively.

In determining the species intended by Withering and Purton, the identifications of previous authors have not been copied; but an attempt has been made, by comparison of their descriptions, and the quoted figures, with the latest ideas of Fries, to decide what was meant by them, and we feel assured that this can be satisfactorily done in more cases than has been before imagined.

We have also availed ourselves of that extensive series of coloured illustrations of fungi from the neighbourhood of Kenilworth and Warwick which is now in the British Museum; these were executed by the late Mrs. Russell, of Kenilworth, and many of her specimens were named or confirmed by eminent authorities. We must here acknowledge our indebtedness to the late Rev. W. W. Newbould for all our knowledge of the nomenclature and stations given on these plates. He, with kindly courtesy, and the untiring patience so peculiarly his own, without solicitation on our part, copied for us all the details we give from these. Of present workers we have to thank the Rev. D. C. O. Adams for his numerous MS. notes on the fungi found by him in the neighbourhood of Combe, Ansty, and Brinklow; Dr. M. C. Cooke for notes made during his various visits to Birmingham, and also for other kind and valuable help; and, besides him, Messrs. C. B. Plowright, M.R.C.S., of King's Lynn, and Mr. W. Phillips, of Shrewsbury. The following abbreviations will be used:—

*With.*—An Arrangement of British Plants. By William Withering, M.D., F.R.S. The Fungi in Volume IV., Ed. 4, 1801. Ed. 7, 1830. Unless otherwise stated, Ed. 4 is the one intended.

*Purt.*—A Botanical Description of British Plants in the Midland Counties. By Thomas Purton, Surgeon, Alcester. Vol. II., 1817.  
An Appendix to the Midland Flora, Vol. III., 1821.

*Bloxam.*—Manuscript notes by the late Rev. Andrew Bloxam, of Twycross, in his copy of the 5th volume of English Flora in our possession.

*Russell, Illustr.*—A series of coloured Illustrations of the Fungi around Kenilworth and Warwick. By the late Mrs. Russell, of Kenilworth, now in the British Museum.

*Rugby Sch. Rep.*—Report of the Rugby School Natural History Society, 1882, &c.

*Adams.*—Rev. D. C. O. Adams, M.A., of Ansty, near Coventry. MS. Notes.

*Russell, List.*—A printed List of the British Fungi, marked by the late Mrs. Russell, lent by her niece, Miss Worsley.

*Perceval.*—List of Fungi found in the neighbourhood of Warwick, between October, 1871, and October, 1872, by Cecil H. S. Perceval, Esq.

*Cooke's Illustr.*—Illustrations of British Fungi (Hymenomycetes). By M. C. Cooke.

## FAM. I.—HYMENOMYCETES.

### ORD. I.—AGARICINI.

#### Genus I.—AGARICUS. Linn.

##### Sub-genus I.—AMANITA. Fr.

**Ag. phalloides, Fr.** *Ag. muscarius*, var. 5, *stramineus*, Purt.

Woods and fields. August-September.

Ragley and Oversley Wood. *Purt.* iii. 203. Kenilworth, *Russell, List.* Warwick, *Perceval.* Combe Ridings! *Adams.* Pool Hollies Wood, Sutton; Trickle Coppice, and New Park, Middleton; Edgbaston Park; Packington Park; Cut-throat Coppice, Solihull; Crackley Wood, Kenilworth; Haywood; Old Park Wood, Ragley Woods.

Var. *vernus*, Bull. *Ag. muscarius*, var. 3, *albus*, Purt.

Woods and heaths. Rare.

Oversley, *Purt.* iii. 201. Combe Ridings, *Adams.* New Park, Middleton; Marston Green; Coleshill Pool; copse by Plant's Brook Reservoir; Cubbington Wood; Corley Wood.

The plants from Oversley, Corley Wood, and Marston Green, at least, are probably the *albus* form of *Ag. phalloides*.

**Ag. mappa, Fr.**

Woods, &c. Rare. September-October.

Birmingham Road, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams.* Sutton Park; Trickle Coppice; Shawberries Wood, Shustoke.

**Ag. muscarius, L.**

Woods and heathy footways. Frequent. August to October.

Edgbaston ! *With.* 182. Oversley Wood, *Purt.* ii. 630. Crackley Wood, *Russell, Illustr.* Combe Woods ; Allesley, *Adams.* Oscott College grounds ; Trickley Coppice, and New Park, Middleton ; Sutton Park ; Langley ; Coleshill Heath ; Marston Green ; Edgbaston Park ; Shustoke.

Var. *puella.* *Ag. muscarius*, var. 4, *Purt.*

Ragley Woods, *Purt.* iii. 202. Trickley Coppice. Sometimes as large as type.

**Ag. pantherinus, DC.** *Ag. muscarius*, var. 2, *Purt.*, *ex part.*

Oversley Hill ; Coughton Park ; *Purt.* iii. 201. Old Park, Arrow ; Sutton Park ; the Spring, Kenilworth ; Alveston Pastures.

**Ag. excelsus, Fr.**

Woods. Kenilworth, *Russell, List.*

**Ag. rubescens, Pers.** *Ag. muscarius*, var. 7, *With.*

Woods and open places. Common.

Edgbaston Park, where grass had been mown, *With.* 183. Crackley Wood, *Russell, Illustr.* High Wood, Combe, *Adams.* Warwick, *Perceval.* Sutton Park ; New Park, Middleton ; Bradnock's Hayes, near Sutton ; Hams Hall ; pine wood near Coleshill ; Coleshill Pool ; Cornets End ; Packington Park ; Marston Green ; Hampton-in-Arden ; Solihull ; Knowle ; Kingswood ; Berkswell ; the Spring, Kenilworth ; Ragley Park.

**Ag. nitidus, Fr.**

Woods. Rare. September-October. Coleshill Pool. *Ag. muscarius*, var. 2, *With.* 182, Edgbaston, is either this or *Ag. mappa.*

**Ag. asper, Fr.**

Woods. Rare. August to October.

Crackley Wood ? Birmingham Road, Kenilworth ? *Russell, Illustr.* Sutton Park ? Packington Park ; Coleshill Pool ; Shepherd's Wood, near Solihull.

**Ag. vaginatus, Bull.** *Ag. muscarius*, var. 6, *plumbeus*, *With.*, *Purt.*

Woods and pastures. Common. September-October.

Pastures, Edgbaston ; Edgbaston Park ! *With.* 240. 268. Wood, near Pop-hills, *Mrs. Rufford*, *Purt.* iii. 203. Kenilworth ! *Russell, List.* Ansty, *Adams.* Sutton Park ; Windley Pool, Four Oaks ; Trickley Coppice ; Middleton ; pine wood near Coleshill ; Coleshill Pool ; Water Orton ; Hams Hall ; Marston Green ; Birch Coppice, Polesworth ; Haywood ; Ragley Wood ; Arrow ; Alveston Pastures.

The varieties *fulvus* and *luridus* both occur, the former more commonly and usually smaller.

**Ag. strangulatus, Fr.**

Combe Ridings, *Adams*. A single specimen, probably belonging to this species, has occurred at Hams Hall.

**Sub-genus II.—LEPIOTA. Fr.****Ag. procerus, Scop.**

Woods, pastures, &c. August to October.

Edgbaston Park ! *With*. 267. The Common, Kenilworth ; Stoneleigh Park, *Russell, Illustr.* Bentley Park, 1869, *Bloxam*. Ansty, *Adams*. Pine wood near Coleshill ; Corley Wood.

**Ag. rachodes, Vitt. Ag. procerus, var. 3, With.**

Pastures. July to October.

Edgbaston Park, *With*. 267. Barrow Well Lane, Kenilworth, *Russell, Illustr.* Millfield, Ansty, *Adams*, Warwick Castle grounds, *Perceval*. Sutton Park, borders of woods ; Sutton ; Kingswood.

**Ag. excoriatus, Schaff. Ag. procerus, var. 4, With.**

Pastures. July to September. Edgbaston Park, *With*. 268.

**Ag. graellentus, Kromb.**

Pastures. September. Kenilworth, *Russell, List*. In a greenhouse, Edgbaston, *Blakemore* !

**Ag. acutesquamosus, Weinm.**

Gardens and hothouses. Rare. September-October.

Garden at Kenilworth, *Russell, Illustr.* Ansty Churchyard, *Adams*. Sutton, on a cucumber bed.

**Ag. clypeolarius, Bull.**

Shady places. Rare. October.

Edgbaston Park, *With*. 270. In Oversley Lane, leading to the mill, *Purt.* ii. 650. On the side of Ragley Park, near to Kingley, *Purt.* iii. 421. Stoke, *Adams*.

**Ag. cristatus, Fries.**

Fields and lawns. August to October.

Kenilworth, *Russell, List*. Ansty, *Adams*. Sutton Park ; Driffold Lane, Sutton, on chips and sawdust.

*Ag. clypeolarius*, var. 3, *With*. 270, "Edgbaston Park, amongst grass," is probably this, as he mentions the "disagreeable smell."

**Ag. cepæstipes, Sow.**

Hothouses. Rare. Hothouses, Ansty Hall, *Adams*. Sutton (var. *luteus*), in a forcing house, in great profusion.

**Ag. carcharias, Pers.**

Pine woods. Rather rare. Spetember-October.

Trickley Coppice, and New Park, Middleton; Water Orton; pine coppice, Coleshill Heath, abundant.

**Ag. granulatus, Batsch. Ag. croceus, Purst.**

Woods, heaths, and footways. September-October.

Oversley, *Purt.* iii. 405. Bentley Park, 1849, *Bloxam*. The Common, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams*. Warwick, *Perceval*. Sutton Park; Trickley Coppice, and New Park, Middleton; pine wood, Coleshill Heath; Coleshill Bog; Bradnock's Hayes; Hampton; Marston Green; Cornets End.

**Ag. amianthinus, Scop.**

Woods. Rare. October. Birmingham Road, Kenilworth, 1871, *Russell, Illustr.*

**Ag. polystictus, Berk.**

Amongst grass by road sides. Rare. October.

Road sides, amongst grass, and on the Common, Kenilworth, *Russell, Illustr.*

**Sub-genus III.—ARMILLARIA. Fr.****Ag. melleus, Vahl. Ag. stipitis, Sow., With., and Purst. Ag. cumulatus, With.**

On stumps of trees, hedge banks, and woods. Frequent. August to October.

Alne Hills, *Purt.* ii. 632. Packington Park! *With.* 189. Edgbaston! *With.* 187-8. Crackley Wood! Birmingham Road, Kenilworth! *Russell, Illustr.* Ansty, *Adams*. School Close, *Rugby School Rep.* Warwick, *Perceval*. Sutton Park; New Park; Trickley Coppice; Middleton Heath; Coleshill Heath; Arley Wood; Marston Green; Castle Bromwich; Bradnock's Marsh; Solihull; Olton; Kingswood; Haywood; Waverley Wood, Stoneleigh; Oversley Wood; Ragley Wood.

**Ag. ramentaceus, Bull.**

Woods. Rare. October. Spinny, near Ansty, *Adams*.

**Sub-genus IV.—TRICHOLOMA. Fr.****Ag. sejunctus, Sow.**

Woods. Rare. September-October. Burton Green Wood, near Kenilworth, *Russell, Illustr.*

**Ag. portentosus, Fr.**

Wood. Rare. September to November. Kenilworth, November, 1865, confirmed by Berkeley, *Russell, Illustr.*

**Ag. fucatus, Fr.**

Pine woods. Rare. Crackley Wood ! *Russell, Illustr.*

**Ag. spermatheus, Fr.**

Woods. Rare. September-October. Shawberries Wood, near Shustoke, 1882 ; Alveston Pastures, 1882. Confirmed by Dr. Cooke.

**Ag. nictitans, Fr.**

Woods. Local. September-October.

Pool Hollies Wood, Sutton Park ? Pine wood near Coleshill Pool ; Plant's Wood ; Tile Hill ; agreeing with *Cooke's Illustr.*, t. 56.

**Ag. flavo-brunneus, Fr.**

Woods and heaths. Rare. October. Hopsford, *Adams*. Windley Pool, Sutton ; Coleshill Heath ; Spennall.

**Ag. albo-brunneus, Pers. Ag. viscosus, Purt.**

Woods. October. Iron Cross, by the side of the turnpike road to Evesham, *Purt.* iii. 208. Trickle Coppe, abundant.

**Ag. pessundatus, Fr.**

Woods. Rare. September-October. Among trees, the Spring, Kenilworth, *Russell, Illustr.*

**Ag. stans, Fr.**

Woods. Rare. October.

Edgbaston Park, amongst trees ; agreeing with *Cooke's Illustr.*, tab. 198. The two forms mentioned by Fries occurred together.

**Ag. rutilans, Schaff. Ag. xerampelinus, With.**

Woods, amongst pine trees. Local. October.

Red Rock Plantations, Edgbaston, 6th July, 1791, *With.* 211. Hopsford, near Ansty, *Adams*. School Close, *Rugby School Rep.* Sutton Park ; Trickle Coppe ; Coleshill Pool ; Burton Green ; Kingswood.

**Ag. luridus, Schaff.**

Woods. Rare. October. Crackley Lane, *Russell, Illustr.*

**Ag. columbetta**, *Fr. Ag. leucocephalus*, With.

Woods and pastures. Rare. August to October.

Pasture land, Edgbaston, *With.* 185. Burton Green Wood, *Russell, Illustr.*  
Combe Ridings, unders firs, *Adams.* Coleshill Pool.

Although Withering quotes Bull. t. 536 for his species, it is certainly not *Ag. albus*, Schæff, but agrees closely with the specimens from Coleshill Pool, which were very like Cooke's *Illustr. tab.* 48.

**Ag. sculpturatus**, *Fr.*

Woods. Rare. October. Burton Green Wood, October, 1869, *Russell, Illustr.*

**Ag. imbricatus**, *Fr.*

Fir woods. Rare. October. Abbey Field, *Russell, Illustr.* Trickley Coppice, October, 1886.

**Ag. vaccinus**, *Pers.*

Pine woods. October. Kenilworth, *Russell, List.* Combe Ridings, *Adams.*  
Sutton Park; Crackley Wood.

Withering's plant (p. 196), from Edgbaston Park, is probably *Ag. imbricatus*.

**Ag. terreus**, *Schæff.*

Woods. Rare. August to October.

Edgbaston Park, *With.* 183. Plantations at Arrow in great plenty, *Purt. ii.*  
630. Kenilworth, *Russell, List.* Waldegrave-on-Sow, *Adams.* Sutton Park; Olton Reservoir.

Var. *argyraceus*, Bull. Ansty, 1886, *Adams.*

**Ag. saponaceus**, *Fr.*

Woods. Local. September-October.

Kingswood, *Hawkes!* Upper Holly Hurst, Sutton Park; Trickley Coppice;  
pine wood, Coleshill Heath; Alveston Pastures.

**Ag. cuneifolius**, *Fr.*

Fields and near woods. Rare. September-October. Abbey Fields, Kenilworth, *Russell, Illustr.* Sutton Park; New Park, Middleton.

**Ag. murinaceus**, *Bull.*

Rare. October. Roadside bank by Combe Park, *Adams.*

**Ag. virgatus**, *Fr.*

Woods. Rare. October. Edgbaston Park; Coleshill Pool.

**Ag. sulphureus, Bull.**

Woods. September-October. Oversley Wood, *Purt.* ii. 628. Crackley Wood, *Russell, Illustr.* Combe Ridings, *Adams.*

**Ag. inamœnus, Fr.**

Very rare. October. Sutton Park. Odour very unpleasant.

**Ag. carneus, Bull.**

Fields. Rare. September. Corley; Ansty, *Adams.* Coleshill Heath.

**Ag. gambosus, Fr.**

Pastures. Rare. Warwick, *Perceval.* Ansty, near Coventry, *Adams.*

**Ag. borealis, Fr.**

On the ground. (Near) Birmingham, *Cooke, Illustr.* t. 956.

**Ag. albus, Schæff.**

Rare. Crackley Wood, Kenilworth, *Russell, Illustr.*

**Ag. acerbus, Bull.**

Woods. Rare. October. Crackley Wood, *Russell, Illustr.*

**Ag. personatus, Fr. Ag. violaceus, With.**

Woods. Rare. October-November.

Pastures, Edgbaston, *With.* 204. Bentley Park, *Bloxam.* Roadsides, Brinklow Lane, *Adams.* Roadside, near Wolvey; near Sutton.

**Ag. nudus, Bull.**

Woods. Rare. October. Edgbaston, *With.* 201. Kenilworth, *Russell, List.* Combe; Hopsford, *Adams.* Sutton Park.

**Ag. cinerascens, Bull.**

Woods. Rare. August. Dale House Lane, Kenilworth, *Russell, Illustr.*

**Ag. grammopodius, Bull. Ag. graveolens, With.**

In pastures. May to October.

Red Rock Plantation, Edgbaston; in rings under trees in the garden at Packington, *With.* 178. In rings under trees in Ragley Park; at Pophills and other places in the neighbourhood, *Purt.* iii. 206. Sutton Coldfield; on sawdust in the basement of the Queen's College, Birmingham.

**Ag. melaleucus, Pers.**

On the ground. Rare. September-October. Brinklow Lane, *Adams*.

**Ag. brevipes, Bull.**

On bare soil. Rare. Sutton Park, and Crystal Palace grounds, Sutton; Trickley Coppice.

**Ag. humilis, Fr.**

Amongst grass. August to October. Meadows, Kenilworth, *Russell*. Edgbaston, *Robinson*! Sutton.

**Ag. pædidus, Fr.**

In fields. September-October. Fields near Maxstoke Priory, abundant.

**Sub-genus V.—CLITOCYBE. Fr.****Ag. nebularis, Batsch.**

In woods. Rare. September to November. The Spring, Kenilworth, *Russell*, *Illustr.* Sutton; Water's Wood, Maxstoke; Cut-throat Coppice, Solihull.

**Ag. clavipes, Fr.**

Woods. Rare. September-October. Combe Ridings, *Adams*. Trickley Coppice, 1883; Harding's Wood, near Maxstoke; Packington Park; woods, Corley.

**Ag. inornatus, Sow.**

Amongst grass. Rare. October. Birmingham Road, Kenilworth, *Russell*, *Illustr.* Hopsford, near Brinklow, *Adams*.

**Ag. odoratus, Bull.**

Moist woods. Local. August to October.

Oversley Wood, *Purt.* ii. 624. Ragley Wood! *Purt.* iii. 394. Birmingham Road, Kenilworth, *Russell*, *Illustr.* Combe Ridings, *Adams*. Bentley Park, near Atherstone! *Bloxam*, September, 1849. Banks near the entrance to Packington Park.

**Ag. cerussatus, Fr.**

Woods and shady places. Rare. October.

Near Kenilworth, October, 1850. The Briars, Kenilworth; Field Gate and Red Lanes, near Kenilworth, *Russell*, *Illustr.* Near Sutton Park.

**Ag. phyllophilus, Fr.**

Amongst leaves in woods. September-October.

Hedge bank, the Spring, Kenilworth; Crackley Wood! *Russell*, *Illustr.* Sutton Park; Trickley Coppice; Water Orton; Marston Green; Cut-throat Coppice, Solihull; Haywood; Princethorpe Wood.

**Ag. pithyophilus**, *Secr.*

Fir woods. Rare. September-October. Combe Abbey Pool, *Adams*.  
Trickley Coppice; New Park, Middleton.

**Ag. candicans**, *Pers.*

Amongst leaves in woods. October.

Burton Green Wood, near Kenilworth, *Russell, Illustr.* Crackley Wood,  
Kenilworth, collected with Dr. Cooke; Sutton Park.

**Ag. dealbatus**, *Fr.*

Woods. Rather rare. October. Combe Fields, *Adams*. Lower Holly Hurst,  
Sutton Park; Shawberries Wood, Shustoke.

**Ag. gallinaceus**, *Scop.*

Pastures. September-October, Pastures, Kenilworth, *Russell, Illustr.*  
Sutton Park.

**Ag. fumosus**, *Pers.*

Heaths. Rare. October. Kenilworth Common, *Russell, Illustr.* Ansty,  
*Adams*.

**Ag. opaeus**, *With.*

Grassy places among trees. Very rare.

Edgbaston Park, *With.* 180. Red Lane, Kenilworth, *Russell, Illustr.* Old  
Park, Arrow. I have found some specimens in Sutton Park, which, I  
believe, belong to this species.—W. B. G.

**Ag. giganteus**, *Fr.*

Woods and meadows. October.

In a meadow, close to a high hedge, at Mr. Bamford's, Middletown, *Purt.* ii.  
629. The Dale, Kenilworth, *Russell, Illustr.* Corley, *Adams*.

Fries places this species under *Paxillus*.

**Ag. maximus**, *Fr.*

Wood borders. October. Borders of Crackley Wood, Kenilworth, *Russell,*  
*Illustr.* Roadside by Combe Woods, *Adams*.

**Ag. infundibuliformis**, *Schaff.* *Ag. membranaceus*, *With.*

Woods. Local. October.

Edgbaston! Packington Park! *With.* 159. Crackley Wood, under felled  
trees in Red Lane, September, 1871, *Russell, Illustr.* Gulley Common,  
near Nuneaton, 1849, *Bloxam.* Combe, *Adams.* Bentley Park; North  
Waste Wood, Tile Hill; Haywood; Four Oaks; Coleshill Pool; Cub-  
bington Wood; Ragley Wood; Ennister Wood; Knowle; Sperrall.

**Ag. geotropus, Bull.**

Woods. Very rare. October. Kenilworth, September, 1850, *Russell, Illustr.*

**Ag. inversus, Scop.**

Woods. Not common. October.

Abbey Hill, Kenilworth; Crackley Wood, *Russell, Illustr.* Combe Road and Ansty, *Adams.* In clusters, Sutton Park; Sutton.

**Ag. flaccidus, Sow.**

Woods. Rare. October. Discovered by Mrs. Rufford in Ragley Wood, *Purt.* iii. 186. Fillongley, *Adams.*

**Ag. catinus, Fr.**

Woods. Very rare. Crackley Wood, Kenilworth! *Dr. Cooke.*

**Ag. tuba, Fr.**

Woods. Rare. Trickley Coppice, Middleton! *Dr. Cooke.*

**Ag. cyathiformis, Fr. Ag. sordidus, Dicks., With.**

Meadows. Local. October-November.

Pastures, Edgbaston, *With.* 197. In my own field at Oversley, *Purt.* iii. 197. Combe, *Adams.* Kenilworth, tan heaps; Birmingham Road, Kenilworth, *Russell, Illustr.* Duke Wood, Wappenbury; Sutton; Sutton Park; Small Heath; Harding's Wood, Maxstoke; Knowle.

**Ag. brumalis, Fr. Ag. cyathiformis, Bull.,\* With., Purt.**

Open places in woods. Local. October to December.

Pastures, Edgbaston, *With.* 153. Oversley Hill; Coughton Park; Ragley Woods, *Purt.* ii. 623, obs. iii. 182. Burton Green Wood; Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams.* Sutton Park; Edgbaston Park; Trickley Coppice; Olton Reservoir; pine wood, Coleshill Heath.

\*The quotation of "Bull, t. 278, A.B." in Fr. Hym. Eur., p. 103 (repeated by Stevenson, p. 91), is a misprint for t. 248, A.B.

**Ag. metachrous, Fr.**

Woods. Local. September-October.

Among trees, the Spring, Kenilworth, *Russell, Illustr.* Trickley Coppice; New Park; Middleton Heath; Bradnock's Hayes; pine wood, Coleshill Heath; Whey-porridge Lane, Solihull.

**Var. obsolescens, Batsch.**

In the park at Packington, *With.* 187. Probably, as he quotes the figure of Batsch (f. 102).

**Ag. ditopus, Fr.**

Pine woods. Rare. October. Sutton Park, *Dr. Cooke*. Edgbaston Park; Trickle Coppice; Middleton Heath; pine wood near Coleshill Pool.

**Ag. fragrans, Sow.**

Woods. Local, August to October.

Edgbaston Park, under Spanish chestnut trees, *With.* 158. The Spring, Kenilworth, *Russell, Illustr.* Combe, *Adams*. Coppice near New Park, Middleton; the Shawberries, Shustoke.

**Ag. obsoletus, Batsch.**

Very rare. September. Slope of the boat-house field, Edgbaston, *With.* 200.

**Ag. laceatus, Scop.**

Woods. Common and very variable. July to October.

*Ag. rosellus*, *With.* 167, Edgbaston! *Ag. livido-purpureus*, var. 2, *With.* 256, and *Ag. subcarneus*, ib. 260. Edgbaston and Packington Parks! *Ag. farinaceus*, *Purt.* ii. 640, Alcester Heath; side of road to Stratford. Warwick, *Perceval*. Kenilworth, *Russell, List.* Combe, *Adams*. Sutton Park; Trickle Coppice; Bentley Park; Olton, &c., &c.

Var. *amethystinus*, Bolt. Often with the type.

Plantations, Edgbaston! *With.* 176. Oversley and Ragley Woods, *Purt.* ii. 628. Sutton Park; Edgbaston Park; Packington Park; New Park; Coleshill Heath, &c.

**Sub-genus VI.—COLLYBIA. Fr.****Ag. radicatus, Relk. *Ag. umbraculum*, With.**

On the ground. Local. August to October.

Church Lane, Edgbaston! *With.* 158. Plantation near Dunnington, *Purt.* ii. 637. The Briars, Kenilworth, *Russell, Illustr.* Warwick, *Perceval*. Ansty, *Adams*. Pool Hollies Wood, Sutton Park; Windley Pool; field near Crackley Wood, Kenilworth; Packington Park; New Park; Austey Wood; Wootton Wawen, &c.

**Ag. platyphyllus, Fr.**

Woods. Local. October.

Corley Wood, *Adams*. Sutton Park (*repens*); Trickle Coppice; New Park; Kingsbury Wood; Bentley Park; Marston Green; Ennister Wood; Coughton Park.

**Ag. fusipes, Bull. *Ag. elasticus*, With. *Ag. crassipes*, With., *Purt.***

Stumps and under trees. August to October.

Edgbaston Park, *With.* 181, 186. Oversley Hill; Sperrall Lane, *Purt.* ii. 630, and var. *elasticus*, Oversley Lodge, iii. 199. Birmingham Road, Kenilworth, *Russell, Illustr.* Warwick, *Perceval.* Combe; Corley, *Adams.* Hams Hall, *Hawkes!* New Park, Middleton; Ironstone Wood, Oldbury; Pool Hollies Wood, Sutton; Packington Park; Corley Wood; Ennister Wood; Knowle; School Rough, Marston Green.

**Ag. maculatus**, *Alb. et Schwein.*

Woods. Not rare. October.

The Spring, Kenilworth; Crackley Wood! *Russell, Illustr.* Combe Ridings, *Adams.* Sutton Park; New Park; Trickle Coppice; Coleshill Pool and Heath; Ironstone Wood, Oldbury; Four Oaks; Bradnock's Hayes; Cornets End.

**Ag. butyraceus**, *Bull.*

Woods. Local. October.

Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams.* School Close, Rugby, *Rugby School Rep.* Sutton Park; Water Orton; School Rough, Marston Green; Shawberries Wood; coppice, Whey-porridge Lane, Solihull; Edgbaston Park; New Park; Bradnock's Hayes; Cubbington Wood; Trickle Coppice; Olton Reservoir.

**Ag. velutipes**, *Curt.* *Ag. sulcatus*, *With.*

Logs, &c. Frequent. October to April.

Edgbaston, *With.* 229. Kenilworth, *Russell, List.* Warwick, *Perceval.* Ansty, *Adams.* Driffield Lane; Sutton Park; near Olton Reservoir; Shirley Heath; Marston Green; Castle Bromwich; Shustoke, &c.

**Ag. vertirugis**, *Cooke.*

Decayed fern roots. Rare. Crackley Wood, September, 1861, *Russell, Illustr.*

**Ag. hariolorum**, *DC.* *Ag. nemoralis*, *With.*

Woods. Very rare. October. Edgbaston, *With.* 234.

**Ag. confluens**, *Pers.*

Amongst leaves in woods. Rare. Binley Woods, near Coventry, *Adams.* Edgbaston Park; Coleshill Heath.

**Ag. conigenus**, *Pers.* *Ag. hippopinus*, *With.*

On the cones of Scotch fir in Packington Park, *With.* 199.

**Ag. cirrhatus**, *Schum.*

Amongst leaves. Rare. Holly Hurst, Sutton Park; Windley Pool; as in *Cooke's Illustr.* t. 144B.

**Ag. tuberosus, Bull.**

On dead *Russula*. Rare. August to October. New Park, Middleton ;  
School Rough, Marston Green ; pine wood, Coleshill Heath.

**Ag. collinus, Scop.**

Grassy places. Rare. September. The Spring, Kenilworth, *Russell, Illustr.*  
New Park, Middleton ; named by *Dr. Cooke*.

**Ag. esculentus, Wulf.**

Fields. Rare. September. Hopsford, *Adams*.

**Ag. tenacellus, Pers.**

Rare. Warwick Castle Grounds, *Perceval*.

**Ag. acervatus, Fr.**

Woods. Rare. August. Wood, Dale House Lane, Kenilworth, *Russell, Illustr.*

**Ag. dryophilus, Bull.**

Amongst leaves in woods. Frequent. August to October.

Edgbaston, *With.* 284. Ragley Woods ; Oversley Wood, *Purt.* iii. 228.  
Crackley Wood ! the Spring, Kenilworth, *Russell, Illustr.* Combe,  
*Adams.* Sutton Park ; New Park ; Trickle Coppice ; Baddesley Park ;  
Coleshill Heath ; Packington Park, &c.

In Trickle Coppice and near Coleshill Pool there occurs a form of this which  
appears to be *Ag. aquosus*, Bull.

**Ag. raneidus, Fr.**

Woods. Rare. October. On a felled tree, New Park, Middleton, October,  
1885, in company with *Dr. Cooke*.

**Ag. inolens, Fr.**

Gardens. Clarendon Villa, Kenilworth, *Russell, Illustr.*, is probably a mistake.

**Sub-genus VII.—MYCENA. Fr.****Ag. purus, Pers. Ag. roseus, With., Purt.**

Woods and plantations. September-October.

Plantations, Edgbaston, *With.* 253. Oversley Lane, *Purt.* ii. 643. Oversley  
Wood ; Ragley Wood, *Purt.* iii. 224. Kenilworth, September, 1849,  
*Russell, Illustr.* Hopsford, near Brinklow, *Adams.* Marston Green ;  
Trickle Coppice ; New Park, Middleton ; in a copse at Kenilworth.

**Ag. pseudo-purus, Cooke.**

Woods. October. Edgbaston Park ; Bradnock's Hayes ; Trickle Coppice and New Park, Middleton.

Probably a variety of the preceding.

**Ag. luteo-albus, Bolt.**

Woods. October. The Spring, Kenilworth, *Russell, Illustr.*

**Ag. flavo-albus, Fr.**

Amongst moss. October. The Common, Kenilworth, *Russell, Illustr.* Shilton, near Coventry, *Adams.* Upper Nut Hurst, Sutton Park, *Dr. Cooke.*

**Ag. lacteus, Pers.**

Woods. Rare. September. Stoneleigh Woods, *Adams.*

**Ag. rugosus, Fr.**

Roadsides. Rare. August. Marston Green ; Packington Park.

**Ag. galericulatus, Scop. Ag. varius, With., Purt.**

On stumps and trunks of trees. August to November.

Edgbaston, *With.* 237-8. Crackley Wood ; Burton Green Wood ; willow stumps, Birmingham Road, Kenilworth, *Russell, Illustr.* Warwick, *Perceval.* Combe, *Adams.* Longford, *Rugby Sch. Rep.* Sutton Park ; New Park ; Stechford ; Olton ; Marston Green ; Shawberries Wood ; Water Orton ; Kenwalsey ; Sharman's Cross, Solihull ; Corley.

Var. *calopus*, Fr. New Park, Middleton ; Trickle Coppice ; Sutton.

**Ag. polygrammus, Bull.**

Stumps of trees. October.

"The variety *polygrammus* was brought to me by my friend Mr. Rufford," *Purt.* iii. 278 ; exact locality doubtful. Kenilworth, variety with smooth stem, *Russell, Illustr.* Combe, *Adams.* Wood near Wolvey ; Coleshill Heath ; Trickle Coppice.

**Ag. pullatus, Berk. et Cooke.**

On the ground amongst dead leaves. Rare. September to November. *Cooke, Illustr.* t. 237.

Combe Ridings, *Adams.* New Park ; pine wood, Coleshill Heath ; Coleshill Pool ; Water's Wood, Maxstoke ; Sutton Park.

**Ag. pauperculus, Berk.**

Oak stumps. Rare. October. Oak stump, Kenilworth, *Russell, Illustr.*

**Ag. leptcephalus, Pers.**

Very rare. Pine wood above Coleshill Pool.

**Ag. alcalinus, Fr.**

On trunks of trees. August to November.

Warwick, *Perceval*. Kenilworth, *Russell, Illustr.* Binley, near Coventry. *Adams*. Sutton Park; Langley; Castle Bromwich; Water Orton; Shawberries Wood, Shustoke; Water's Wood, Maxstoke.

**Ag. ammoniacus, Fr.**

On the ground, amongst grass, overlooked.

Marston Green; New Park, Middleton; Trickley Coppice; Sutton; Corley.

We fear this has often been overlooked through confusion with *Ag. alcalinus*. It grows singly, not cæspitose, and chiefly on grassy roadsides.

**Ag. metatus, Fr.**

Amongst moss in woods. October. Amongst leaves and moss, New Park, Middleton, named by Mr. C. B. Plowright.

**Ag. stanneus, Fr.**

Amongst grass in woods. Rare. October. Coleshill Pool; Bradnock's Hayes.

**Ag. vitreus, Fr.**

Woods. Rare. September. Water's Wood, Maxstoke? (1882.)

**Ag. tenuis, Bolt.**

Moist woods. Rare. September-October.

Burton Green Wood, Kenilworth, *Russell, Illustr.* Pine wood, Coleshill Heath, on sphagnum; Haywood, on sphagnum; Lady Wood, Four Oaks.

**Ag. filopes, Bull. Ag. varius, var. 3, With.**

Amongst leaves in woods. September-October.

Edgbaston Park, *With.* 237. Combe Woods, *Adams*. Sutton Park; New Park, Middleton; School Rough, Marston Green; Coleshill Heath.

Withering's plant can scarcely be this species.

**Ag. amietus, Fr.**

Rare. October. Among fern roots, &c., under a glass shade in the house, Birmingham, *Cooke, Illustr.*, t. 286.

**Ag. vitilis, Fr.**

In woody places, among grass. Not common. Bradnock's Marsh; Olton Reservoir; Sutton Park.

**Ag. acicula, Schaff.**

On sticks. September-October. Hopsford, *Adams*. Driffold Lane, Sutton; New Park, Middleton.

**Ag. sanguinolentus, A. et S.**

Amongst leaves in woods. Not uncommon. October. Sutton Park; Four Oaks; Trickle Coppice; Hams Hall; Marston Green, &c.

**Ag. galopus, Pers.**

Amongst leaves. Frequent. September to November.

Red Lane; Crackley Wood! Clarendon Villa, Kenilworth, *Russell, Illustr.* High Wood, Combe, *Adams*. Edgbaston Park; Sutton Park; New Park; Trickle Coppice; Coleshill Pool; Waterorton; Ironstone Wood, Oldbury; Olton Reservoir; Solihull; Cubbington Wood; Haywood; Corley.

Var. *candidus*, all pure white, milk abundant. See *Journal of Botany*, xxii. 129. At Four Oaks.

**Ag. leucogalus, Cke.**

Very rare. New Park, Middleton, on the ground, October 7, 1883.

Cooke, *Illustr.*, t. 653, was not published at that time, but it represents the New Park species very closely; the description agrees exactly, except in the habitat.

I have since found this species at Langley, September, 1888, and this time observed that the mycelium was attached to a small fragment of decaying wood, buried in the ground. Probably the same was true of the New Park specimens.—W. B. G.

**Ag. epipterygius, Scop.**

Amongst dead leaves. October.

On the mossy bark of a tree, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams*. Sutton Park; Trickle Coppice; New Park; Maxstoke; Brown's Wood, Solihull; Marston Green; Bradnock's Hayes.

**Ag. vulgaris, Pers.**

Woods. Rare. Combe Woods, *Adams*. School Rough, Marston Green.

**Ag. tenerimus, Berk.**

Fir cones and twigs. Rare. Kenilworth, *Russell, List*. Greenhouse at Lady Adams's, Ansty, *Adams*. Sutton, on dead bark; Four Oaks.

**Ag. electicus, Buckn.**

Very rare. October. Sutton Park ; Olton Reservoir ; in both places on dead and rotting rush stems.

**Ag. corticola, Schum. Ag. corticalis, Purt.**

On dead branches of bramble, &c. Rare. October.

Ragley Wood ; Oversley Wood, *Purt.* iii. 214. Clarendon Villa, Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams.* Sutton ; Olton Reservoir. *Merulius fatidus*, *Purt.* ii. 620, from his garden at Alcester, is, *teste ipso*, a form of this ; see iii. 391.

**Sub-genus VIII.—OMPHALIA. Fr.****[Ag. pyxidatus, Bull.**

Occurred among grass by the roadside, California, Harborne, Worcestershire.]

**Ag. sphagnicola, Berk.**

On sphagnum. Rare. May-June. Bog above Blackroot Pool, Sutton Park, *Dr. Cooke*, 1883.

**Ag. hepaticus, Batsch.**

Grassy places. Rare. October. Kenilworth, *Russell, Illustr.* By the railway above Blackroot Pool, *Dr. Cooke*, 1883.

**Ag. muralis, Sow.**

Walls, &c. Rare. On the top of a wall, amongst moss, Edgbaston.

**Ag. umbelliferus, Linn.**

Heaths. September-October. Sutton Park ; New Oscott.

Var. *myochrous*, *Fr. Hym. Eur.* p. 161. *Merulius fuscus*, *With.* 147—"Packington Park, in clusters,"—is referred by Fries to this variety. The gills are described as subdichotomous, and the colour of the whole as fuscous umber. A fuscous variety in Sutton Park, 1888.

**Ag. pseudo-androsaceus, Bull.**

Very rare. On the top of an old wall at Wixford, October 15th, 1820, *Purt.* iii. 185.

**Ag. stellatus, Fr. Merulius buccinalis, With., Purt.**

Amongst grass, on rotten wood. Rare. February to October.

Packington Park? *With.* 146. Ragley Woods, *Purt.* iii. 180. Olton Reservoir, October, 1881.

This species is doubtful, although the specimen from Olton certainly seemed to agree with the description. [I have since found perfect specimens in Hamstead Park, Staffordshire, June, 1889.—W. B. G.]

**Ag. campanella**, *Batsch.* *Ag. fragilis*, With. ?

Woods. Rare. Pool dam, Edgbaston ? *With.* 208.

Withering quotes "Schæff. 230," which is this species, but the description of the stem does not agree, although that of the pileus and gills is fairly correct.

**Ag. fibula**, *Bull.*

In mossy ground. Not uncommon. September to November.

Packington Park, amongst moss ! *With.* 173. Oversley Hill, *Purt.* ii. 641.  
Edgbaston Park ; Windley Pool ; Sutton Park ; Alveston Pastures, &c.

*Ag. parvus*, With. 233, "pastures, Edgbaston, amongst short grass and moss," is doubtless the same species, although he quotes Bulliard's figure of *Ag. hiemalis*, Osb., with which his description does not agree.

**Ag. integrellus**, *Pers.*

On decaying sticks, in damp places. Rare. May to December.

Fern pots in Lady Adams's greenhouse, Ansty, *Adams.* Maney, near Sutton Coldfield ; School Rough, Marston Green.

**Sub-genus IX.—PLEUROTUS.** *Fr.*

**Ag. corticatus**, *Fr.*

On decaying wood. Rare. October. Driffold Lane, Sutton, 1887-8.

**Ag. dryinus**, *Pers.*

On trunks of trees. Rare. October. Ansty, *Adams.*

**Ag. ulmarius**, *Bull.*

On elm trunks. Local. September to December.

On the branch of an elm, Kenilworth, *Russell, Illustr.* Ansty, *Adams.* Driffold Lane. Sutton ; Sutton Park ; on a felled elm tree near Solihull Railway Station, &c.

**Ag. subpalmatus**, *Fr.* *Ag. palmatus*, *Purt.*

On squared timber. Rather rare. October.

On the trunk of a tree crossing the moat at Studley Castle, *Purt.* ii. 656. Pop-hills, *Rufford.* At the bottom of a stump, Oversley, *Purt.* iii. 430. Warwick, *Perceval.* Coventry Road, near Kenilworth, 1850 ; smooth variety, Kenilworth, *Russell, Illustr.* Withybrook Lane, near Brinklow, *Adams.* Driffold Lane, Sutton, 1889.

**Ag. craspedius**, *Fr.*

On wood. Rare. October. A large cluster in a cellar, St. Vincent Street, Birmingham, *Saund. and Smith,* t. 7.

**Ag. fimbriatus, Bolt.**

Rare.

There can be little doubt that Withering's *Ag. infundibuliformis*, var. 2, "Bolt. 61," is truly this species; "in the park at Packington," *With.* 154. [Clusters of it have been found on old logs in a garden at Handsworth, Staffordshire.]

**Ag. lignatilis, Fr.**

Stumps. Rare. On stumps, Ansty, *Adams*. Sutton, November, 1886.

**Ag. ostreatus, Jacq.**

On stumps and logs. Rather rare. Esculent. November to January.

Edgbaston Park, *With.* 294. Near Studley Castle; Oversley Mill, *Purt.* ii. 655. Kenilworth, *Russell, List.* Driffold Lane and Sutton Park; Legge Lane, Birmingham.

**Ag. euosmus, Berk.**

On stumps. Rare. September. Elm, by Red Lane, Kenilworth, *Russell, Illustr.*

**Ag. salignus, Fr.**

On trunks of trees. Rare. October. On a stump, near Warwick, *Perceval*.  
On a willow, Combe, *Adams*.

**Ag. petaloides, Bull., var.  $\beta$ . spathulatus, Pers. *Ag. spathulatus, Purt.***

On the ground. Rare. October. Oversley and other places in this neighbourhood, *Purt.* ii. 656; cf. iii. 237, 431.

**Ag. acerosus, Fr.**

Very rare. Dunn's Pits Lane, Kenilworth, *Russell, Illustr.*

**Ag. applicatus, Batsch.**

On rotten wood. October. Rosal Lane (Rose Hall Lane), Oversley, *Purt.* ii. 659. Sutton Coldfield.

**Ag. chioneus, Pers.**

On wood. Rare. October. Sutton Park, on fragments of bark.

**Sub-genus X.—VOLVARIA. Fr.****Ag. volvaeus, Bull.**

Stoves. Rare. July. Cucumber frame, Rev. E. H. Knowles, Kenilworth. July, 1871, *Russell, Illustr.*

**Ag. speciosus, Fr.**

Dunhills. Rare. October.

Crackley Wood, Kenilworth, *Russell, Illustr.* Lane near Hams Hall, on waste heap. [Also near Sutton Park, but in Staffordshire.]

**Ag. gloiocephalus, DC.**

On the ground. Rare. Kenilworth, *Russell, List.* Near Brinklow, *Adams.*

**Ag. parvulus, Weinm.**

Pastures. Rare. October. The Moats, Ansty; Shilton Field, *Adams.*

**Sub-genus XI.—PLUTEUS. Fr.****Ag. cervinus, Schaff. Ag. latus, With.**

On the trunks of trees. Frequent. August to October.

Edgbaston, on turf, *With. 227.* At the base of a dead pear tree, Kenilworth, *Russell, Illustr.* Withybrook, near Brinklow, *Adams.* Driffold Lane; Sutton Park; New Park; Packington Park; Solihull; Olton; Marston Green; Grove Park, Warwick; Leamington; Dunchurch, &c.

Var. *patricius*, Schulz.

May to September. On a log in garden, Ansty, *Adams.* Driffold Lane, Sutton.

Var. *eximius*, Smith.

Rare. Warwick Castle Grounds, *Perceval.* Kenilworth, *Russell, Illustr.*

**Ag. umbrosus, Pers.**

Dead trunks. Rare. Stoneleigh Deer Park, *Russell, Illustr.*

**Ag. nanus, Pers.**

On stumps. Rare. Four Oaks Park; Sutton Coldfield.

Var. *lutescens*, Fr. Ansty, *Adams.*

**Ag. chrysophæus, Schaff.**

On wood. Rare. May to September.

Warwick Castle timber yard, *Perceval.* Amongst sticks, Crackley Wood, Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams.*

**Ag. phlebophorus, Ditm. Ag. reticulatus, With.**

On sticks. May to August. Edgbaston Pool dam, *With. 283.* Ansty, near Coventry, *Adams.* Sutton Coldfield.

Sub-genus XII.—ENTOLOMA. *Fr.***Ag. sinuatus, *Fr.***

Woods. Rare. September. Wedgenock Park, *Perceval*. Wood at Walmley; Crackley Lane.

**Ag. lividus, *Bull.***

Woods. Rare. High Down, near Combe, *Adams*.

**Ag. prunuloides, *Fr.***

On the ground. Rare. August. Coleshill Pool.

**Ag. repandus, *Bull.***

Very rare. Kenilworth, *Russell, List*.

**Ag. ameides, *B. et Br.***

Pastures. Rare. Ansty Fields, *Adams*.

**Ag. Saundersii, *Fr.***

On the ground, Shilton, near Coventry, *Adams*.

**Ag. jubatus, *Fr.***

Roadsides, in grassy places. Rare.

Hopsford, *Adams*. Marston Green; [near Barnt Green, on boundary of the (formerly) outlying portion of the county], *Cooke, Illustr.* pl. 317, exactly.

**Ag. griseo-cyaneus, *Fr.***

Fields. Rare. Hopsford, near Brinklow, *Adams*.

**Ag. sericellus, *Fr.***

Woods. Rare. September. Dalehouse Lane, Kenilworth, *Russell Illustr.* Marston Green; Trickle Coppice.

**Ag. clypeatus, *Linn.***

Gardens. Rare. April-May. Red Lane, Kenilworth, May, 1865; gardens, Kenilworth, April, 1872, *Russell, Illustr.* The Moats, Ansty, *Adams*.

**Ag. rhodopolius, *Fr.***

Moist woods. August to October.

Under trees, Birmingham Road; Crackley Wood, Kenilworth, *Russell, Illustr.* Hopsford, *Adams*. New Park, near Middleton. *Dr. Cooke*. Small wood near Penns Railway Station; Trickle Coppice.

**Ag. costatus, Fr.**

Meadows. Rare. September. The Spring, Kenilworth, *Russell, Illustr.*

**Ag. sericeus, Bull.**

Meadows. September-October.

Red Lane and Birmingham Road, near Kenilworth, *Russell, Illustr.* Ansty,  
near Coventry *Adams.* Marston Green; Corley; Sutton Park.

**Ag. nidorosus, Fr.**

Woods, &c. October.

Crackley Wood, Kenilworth, *Russell, Illustr.* High Wood, Combe, *Adams.*  
New Park and Trickle Coppice, Middleton, *Dr. Cooke.* Newlands  
Wood, near Hatton; coppice in Packington Park.

**Sub-genus XIII.—CLITOPILUS. Fr.**

**Ag. prunulus, Scop. Ag. pallidus, Purt.**

Woods, &c. Local. October.

On a hedgebank at Oversley, *Purt.* iii. 183. Pasture, Kenilworth, *Russell,*  
*Illustr.* The Ridings, Combe, *Adams.* Baddesley Park, *Hawkes!*  
Sutton Park; banks of a small pool near Packington Park.

**Ag. undatus, Fr.**

Pastures. Rare. Kenilworth, *Russell, List.*

**Ag. canerinus, Fr.**

Fields. Rare. Ansty, *Adams.*

**Ag. carneo-albus, With.**

Very rare. August. Oversley Hill, *Purt.* ii. 625.

**Sub-genus XIV.—LEPTONIA. Fr.**

**Ag. lampropus, Fr.**

Grassy woods. Rare. September. Bentley Park, *Bloxam.* Corley, *Adams.*  
Pine wood, Coleshill Heath; near Coughton Park.

**Ag. serrulatus, Pers.**

Amongst grass. Rare. September. Corley Woods; pine wood, Coleshill  
Heath.

**Ag. euchrous, Pers.**

On stumps. Rare. Hopsford, near Brinklow, *Adam*

**Ag. chalybæus, Pers.**

Grassy woods. July to September. Corley, *Adams*. Combe Ridings, 1882; Sutton Park.

**Ag. ineanus, Fr.**

Pastures. Rare. Fields, Ansty, *Adams*.

**Ag. asprellus, Fr.**

Pastures. Rare. Pastures, Corley! *Adams*.

**Sub-genus XV.—NOLANEA. Fr.**

**Ag. pascuus, Pers.**

Pastures and waysides. Common. August to October.

Grassy spot, Crackley Wood; meadow, near Kenilworth! *Russell, Illustr.* Mill Field, Ansty, *Adams*. School Close, *Rugby Sch. Rep.* By Trickle Coppice; Marston Green; Sutton Park; Four Oaks; Sutton; Langley; Edgbaston Park; Packington Park; Coleshill Pool; Corley; near Coughton Park, &c.

**Ag. mammosus, Fr.**

Grassy places. Rare. October. Pine wood, Coleshill Heath, 1884.

**Ag. pisciodorus, Ces.**

Amongst grass and leaves. Rare. February, October, December. Driffold Lane, Sutton.

**Sub-genus XVI.—CLAUDOPUS. Fr.**

**Ag. variabilis, Pers.**

On sticks. Rare. October. On blackthorn, Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams*. Sutton Park, on sticks.

**Sub-genus XVII.—PHOLIOTA. Fr.**

**Ag. terrigenus, Fr.**

Rare. Moats, Ansty, *Adams*.

**Ag. erebius, Fr.**

Rare. Moor House garden, Fillongley, *Adams*.

**Ag. durus, Bolt.**

Cultivated land. Rare. August-September. Dunn's Pits Lane; field, Birmingham Road, near Kenilworth, *Russell, Illustr.*

**Ag. præcox, Pers.**

Fields and gardens. February to July.

Warwick, *Perceval*. Garden, Kenilworth; Dale House Lane; borders of Crackley Wood, Kenilworth, *Russell, Illustr.* Hopsford; Ansty, *Adams*. Edgbaston; Erdington; Sutton; Water Orton; near Oldbury Reservoir; Kenilworth; Packington Park.

**Ag. radicosus, Bull.**

Woods Rare. October. High Woods, Combe, *Adams*. Pine wood, Coleshill Heath.

**Ag. pudicus, Bull.**

Stumps. Rare. October. Elder stumps, Ansty Churchyard, *Adams*.

**Ag. heteroclitus, Fr.**

On butt end of logs. Very rare. October.

Driffold Lane, Sutton; occurring many years in succession, always caespitose, large and fine specimens, exactly like *Cooke, Illustr.* pl. 366.

**Ag. squarrosus, Müll. Ag. floccosus, With., Purt.**

On trunks of trees. September-October.

Edgbaston, *With.* 262. Studley Castle, *Purt.* ii. 645. Allesley, *Bree in Purt.* iii. 416. Hams Hall, *Hawkes!* Combe Fields, *Adams*. Sutton; The Grange, Erdington; near Penns Railway Station; Kenilworth; Trickle Coppe; Lady Wood, Four Oaks, &c.

**Ag. spectabilis, Fr. Ag. aureus, Purt.**

On dead stumps. October.

Oversley, Wixford, and near Broome Court, *Purt.* iii. 195. Warwick, *Perceval*. Kenilworth, *Russell, Illustr.* By the side of Brinklow Lane, *Adams*. Coleshill Pool; Edgbaston Park; pine wood, Coleshill Heath; Shustoke. *Ag. rheoides*, on hawthorn and alder stumps, Edgbaston Park, and lane to Curdworth, *With.* 210, seems to be this species.

**Ag. adiposus, Fr.**

On trunks of trees. October. Stump, Malt House Lane, Kenilworth, *Russell, Illustr.* Hopsford, *Adams*. Driffold Lane, Sutton.

**Ag. mutabilis, Schaff.**

On stumps. Local. August to October.

Edgbaston, on rotten wood, *With.* 279. Hopsford, *Adams*. Driffold Lane; Sutton Park; Langley; New Oscott; New Park; Trickle Coppe; pine wood, Coleshill Heath; Alveston Pastures.

**Ag. marginatus**, *Batsch.*

Woods. Rare. October.

In the park at Packington, *With.* 283. The Spring, Kenilworth, *Russell, Illustr.* Pine wood, Coleshill Heath; Windley Pool, Sutton.

**Ag. mycenoides**, *Fr.*

Rare. October. Ansty; Combe, *Adams.*

Sub-genus XVIII.—INOCYBE. *Fr.***Ag. lanuginosus**, *Bull.*

Woods and parks. October. In Lord Aylesford's Park at Packington: *With.* 228. Plantations at Arrow; Oversley Wood, *Purt.* iii. 213.

**Ag. scaber**, *Müll.*

Shady woods. Rare. October to February.

Oversley and Ragley Woods, *Purt.* iii. 205. Dale House Lane, Kenilworth, *Russell, Illustr.* Hopsford, *Adams.*

**Ag. lacerus**, *Fr.*

Woods. Rare. October. Burton Green Wood, Kenilworth, *Russell, Illustr.*

**Ag. flocculosus**, *Berk.*

Amongst grass. Rare. Kenilworth? *Russell, List.*

**Ag. Bongardii**, *Weinm.*

Very rare. October. Amongst grass, Edgbaston Park.

**Ag. obseurus**, *Pers.*

Rare. September. Lodge Wood, Warwick, *Perceval*

**Ag. hæmaetus**, *B. et C.*

Very rare. September. Church Lane, Ansty, *Adams!*

**Ag. fastigiatus**, *Schæff.*

Woods. Rare. September. Crackley Wood, Kenilworth, 1863, *Russell, Illustr.*

**Ag. rimosus**, *Bull.*

Woods and pastures. Not rare. August to October.

Pastures, Edgbaston, *With.* 199. Oversley Hill, *Purt.* ii. 635. Ragley Park! *Purt.* iii. 406. Warwick, *Perceval.* Kenilworth, *Russell, Illustr.* Ansty, *Adams.* Cawstone, *Rugby Sch. Rep.* Edgbaston Park; New Park, Middleton; Trickle Coppice; Sutton Park; Four Oaks Park; Coleshill Pool; Coleshill Heath; Shawberries Wood; Packington Park; Olton Reservoir; Waverley Wood, Stoneleigh; Alveston Pastures; Grove Park, &c.

**Ag. asterosporus, Quel.**

Woods. September-October. Trickle Coppe; New Park, Middleton;  
Coleshill Pool; Bradnock's Hayes; Sutton Park.

No doubt overlooked for *Ag. rimosus*.

**Ag. eutheles, B. et Br. Ag. cacuminatus, With.**

Under fir trees. September.

Red Rock Plantation, Edgbaston, *With.* 198. The Spring and Crackley  
Wood, Kenilworth, *Russell, Illustr.* Corley, *Adams*.

**Ag. descissus, Fr., var. auricomus, Batsch.**

Wood. Rare. Roots of filbert trees, Edgbaston, *With.* 239. Kenilworth,  
September, 1849, *Russell, Illustr.* Ansty? *Adams*.

**Ag. sindonius, Fr.**

Shady places. Rare. October. Red Lane, Kenilworth, *Russell, Illustr.*  
Hopsford, *Adams*.

**Ag. geophyllus, Sow.**

On the ground in woods. Not frequent. August to October.

Oversley Wood, *Purt.* iii. 636. Warwick, *Perceval*. Crackley Wood and the  
Dale, Kenilworth, *Russell, Illustr.* Combe Wood, *Adams*. Coleshill  
Pool; Trickle Coppe.

**Ag. trechisporus, Berk.**

In woods, amongst ferns. Rare. October. Combe Woods, *Adams*. Alveston  
Pastures.

**Sub-genus XIX.—HEBELOMA. Fr.****Ag. fastibilis, Fr.**

Woods. October. The Spring; Crackley Wood, Kenilworth, *Russell, Illustr.*  
The Moats, Ansty, *Adams*. Sutton; Sutton Park; Trickle Coppe.

**Ag. testaceus, Batsch.**

Rather rare. September-October. Barnacle Lane, Combe, *Adams*. Hamp-  
ton-in-Arden; Westwood Coppe, Sutton Park.

**Ag. versipellis, Fr.**

Grassy spots in woods. October-November. Combe Ridings, *Adams*. Sutton  
Park; Trickle Coppe.

**Ag. mesophæus, Fr.**

Rare. October. Ansty, *Adams*. School Rough, Marston Green.

**Ag. sinapizans, Fr.**

Damp woods. September. Alveston Pastures Wood, September, 1881.

**Ag. crustuliniformis, Bull.**

Woods. October. Kenilworth, *Russell, List.* Ansty, *Adams.* Near Packington, in rings amongst grass.

**Ag. elatus, Batsch.**

Rare. September. Knowle, *Hawkes!*

**Ag. longicaudus, Pers.**

Woods. Rare. October. Brown's Wood, Spiluhull.

Sub-genus XX.—FLAMMULA. *Fr.***Ag. lentus, Pers.**

On stumps. October. Foot of post, Dunn's Pits Lane, Kenilworth, *Russell, Illustr.* Combe, *Adams.* The Lyes, Kenilworth.

**Ag. gummosus, Lasch.**

On stumps. Rare. October. Driffold Lane, Sutton.

**Ag. carbonarius, Fr.**

Rare. On burnt earth, Sutton Park, October, 1884, *Dr. Cooke!* Combe Ridings, *Adams.*

**Ag. flavidus, Schaff.**

On trunks of trees. October.

Packington Park, *With.* 205. Meadows, near Kenilworth, 1871; Kenilworth, 1876, *Russell, Illustr.* Ansty, *Adams.* Old Park Wood, near Alcester; Windley Pool, Sutton.

**Ag. conissans, Fr.**

October. Rare. On willow trunks, Sutton Park, *Dr. Cooke, Illustr.* pl. 445. Packington Park.

**Ag. inopus, Fr. Ag. connatus, With.**

Lord Aylesford's Park, Packington! *With.* 207. Coleshill Pool; Bradnock's Hayes; Trickle Coppice; Sutton Park.

**Ag. sapineus, Fr.**

On sawdust. Rare. Driffold Laue, Sutton, October, 1889.

Sub-genus XXI.—NAUCORIA. *Fr.***Ag. cucumis**, *Pers.*

Grassy places. Rare. On a lawn in a garden at Kenilworth, October, 1870, *Russell, Illustr.* Sutton Coldfield, September, 1883; November, 1888.

"I agree entirely with those who consider this merely = *A. pisciodorus*."—  
W. B. G.

**Ag. mellinoides**, *Fr.* *Ag. lacrimalis*, *With.*

October to December.

Edgbaston; Packington Park, *With.* 224. Fields, Ansty, *Adams.* Field near Mr. Knowle's House and Dale House Lane, Kenilworth, *Russell, Illustr.* New Park; Sutton, &c.

**Ag. striæpes**, *Cooke.*

Amongst grass, Ansty, September, *Adams!*

**Ag. sideroides**, *Bull.*

Rare. Dunn's Pits Lane, Kenilworth, October, 1868, *Russell, Illustr.*

**Ag. pediades**, *Fr.*

Pastures. Rare. August. Field opposite Orice Hill, Birmingham Road, Kenilworth, *Russell, Illustr.* Ansty, *Adams.* Bradnock's Marsh; Dunchurch.

**Ag. semiorbicularis**, *Bull.*

Pastures. Frequent. August to October.

The Cliff; the Spring, Kenilworth, *Russell, Illustr.* Mill Fields, Ansty, *Adams.* Sutton Park; Maxstoke Park; Kingsbury Wood; Fillongley, &c.

**Ag. sobrius**, *Fr.*

Meadows. October-November. Meadows, the Spring, Kenilworth, *Russell, Illustr.*

**Ag. erinaceus**, *Fr.* *Ag. lanatus*, *Purt.*

March. At Pophills, on the dead branch of an oak, *Rev. W. S. Rufford in Purt.* iii. 211.

**Ag. conspersus**, *Pers.*

Woods. Rare. August-September. Crackley Wood, Kenilworth, *Russell, Illustr.* Hopsford, *Adams.*

**Ag. escharoides**, *Fr.*

On the ground. September. Malthouse Lane, Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams.* Heathy waysides near Coleshill Pool.

## Sub-genus XXII.—GALERA. Fr.

**Ag. lateritius**, Fr. *Ag. colus*, With.

Pasture field, Edgbaston, August, 1792, *With.* 276. Coughton, and pastures about Gorcot Hall, *Purt.* ii. 650.

On comparison of Sowerby's "upper figure," pointedly referred to by Withering, with the figures of *Ag. lateritius*, and noticing the "loose gills," its extreme fragility, and other distinctions which he draws, it is rendered probable, at least, that his *Ag. colus* is this species; whether the same may be said of Purton's is not so sure. Withering was well acquainted with *Ag. tener*, which he describes exactly, p. 245; moreover, *Ag. lateritius* has the true "distaff" (*colus*) shape, which *Ag. tener* has not.

**Ag. tener**, Schæff.

Plantations, gardens, amongst grass, &c. Common. June to October.

Edgbaston, amongst grass, *With.* 245. Between the rows of asparagus beds (Alcester?); in a field at Oversley and Kinwarton, among grass, *Purt.* iii. 221. Ansty, *Adams.* School Close, *Rugby Sch. Rep.* Sutton and Sutton Park; Edgbaston Park; Trickle Coppice; Olton; pine wood, near Coleshill Heath; Parley Park, near Atherstone; Marston Green; near Coughton, &c.

**Ag. ovalis**, Fr.

Manure heaps. August. Manure heaps, Dunn's Pits Lane, Kenilworth, *Russell, Illustr.*

**Ag. antipus**, Lach.

On soil. Rare. On the bare soil of garden, Clarendon Villa, Kenilworth, *Russell, Illustr.*

**Ag. sparteus**, Fr.

Amongst moss. September. Crackley Wood! Kenilworth, *Russell, Illustr.*

**Ag. rubiginosus**, Pers.

Among moss. Barnacle Lane, Combe, *Adams.*

**Ag. hypnorum**, Batsch.

On mossy banks. Not rare. September-October.

Kenilworth! *Russell, List.* Sutton Park; Trickle Coppice; Cut-throat Wood, Solihull; Crackley Wood, Kenilworth; New Park, Middleton; Langley; Marston Green, &c.

Var. *sphagnorum*, Pers. Sutton Park! October, 1883, *Dr. Cooke.* Cut-throat Wood, Solihull; Haywood; Hampton-in-Arden.

**Ag. mycenopsis**, Fr.

Marshy ground. October. Olton Reservoir, October, 1881.

## Sub-genus XXIII.—TUBARIA.

**Ag. furfuraceus**, Pers. *Ag. circumseptus*, With.

On chips in hedges, &amp;c. August to October.

Edgbaston, in pasture lands, *With.* 244. Crackley Wood, and garden near Kenilworth, *Russell, Illustr.* Fields, Ansty, *Adams.* Sutton; Trickley Coppice; New Park, Middleton; Olton; Marston Green; Coleshill Heath; Shustoke.

## Sub-genus XXIV.—CREPIDOTUS. Fr.

**Ag. mollis**, Schaff.

On logs. August to December.

On the foot of a bridge in the black lands (Ipsley), *Purt.* ii. 659. Hopsford, near Brinklow, *Adams.* Warwick, *Perceval.* Solihull, *Hawkes!* Sutton, and Sutton Park; Packington Park; near Wootton Wawen Hall.**Ag. haustellaris**, Fr. *Ag. resupinatus*, With.On rotten wood, Packington Park, *With.* 298. "Not observed since the time of Withering," *Berk. Outlines*, p. 164. Since recorded from Penzance (*Ralfs*), 1883.**Ag. rubi**, Berk.On rotten wood. October. Dunn's Pits Lane, Kenilworth, *Russell, Illustr.***Ag. pezizoides**, Nees. *Ag. campanuleformis*, *Purt.*On dead branches of trees. Rare. February. Near Pophills, *Mrs. Rufford, Purt.* iii. 239. "Found only in Warwickshire," *Berk. Outlines*, p. 165.

## Sub-genus XXV.—PSALLIOTA. Fr.

**Ag. arvensis**, Schaff. *Ag. campestris*, var. 4, With.

In meadows. August to October.

Edgbaston Park, under large lime trees, *With.* 226. Kenilworth, *Russell, List.* Fields, Ansty, *Adams.* School Close, *Rugby School Rep.* Sutton Park; Packington; Shustoke; Castle Bromwich, &c. This species has also occurred in cellars within the city of Birmingham on several occasions. In the district east of Birmingham, where it is known as the 'Champignon,' it is freely eaten by certain country people.**Ag. campestris**, Linn.

Rich pastures. Frequent. August to October.

Warwick, *Perceval.* Fields about Ansty, *Adams.* Meadows, the Spring, Kenilworth, *Russell, Illustr.* Knowle, *Hawkes!* Packwood; Allesley; Sutton Park; Middleton; Coleshill; Sheldon, &c.

Var. *silvicola*, Vitt. Growing at the base of cottage, Field Gate Lane, October, 1874, *Russell, Illustr.* Combe Ridings, *Adams*.

Var. with *scaly pileus*.

Rookery, Edgbaston, *With.* 226. A form in which the pileus is covered with flattened pencils of brown hair, identical with that recorded by Withering, still occurs in Edgbaston Park.

The form *alba*, with beautiful silky white pileus, is common in Packington Park, and at Bradnock's Marsh. The var. *Ag. villaticus*, Brond, which is more likely to be a distinct species, was represented by grand specimens in a spinny at Hampton, on the edge of a meadow. These exactly agreed with *Cooke, Illustr.*, pl. 585; the pileus measured over 12 ins. in diameter, and the stem  $2\frac{1}{2}$  ins. in thickness.

**Ag. silvaticus**, *Schæff.*

Kenilworth? *Russell, List.* [The Leasowes, Halesowen, Worcestershire, July, 1885.]

#### Sub-genus XXV.—STROPHARIA. *Fr.*

**Ag. versicolor**, *With.*

"This is a rare species. I found it only once, and then near the bridge in Edgbaston Park which goes over the stream that feeds the large pool," *With.* 163. Not found since the time of Withering, either in Britain, or, we believe, abroad.

**Ag. æruginosus**, *Curt.*

Meadows, &c. Common. September to November.

Rookery, Edgbaston! *With.* 255. At the foot of the rails between Alcester and Oversley Bridge, *Purt.* ii. 643. Crackley Wood! *Russell, Illustr.* Combe, *Rugby School Rep.* Solihull, *Hawkes!* Witton; Sutton; Middleton; Olton; Solihull; Coleshill Pool; Maxstoke; Packington Park; Marston Green, &c.

**Ag. albo-cyaneus**, *Desm.*

Meadows and woods. October. Crackley Wood and Red Lane, Kenilworth, *Russell, Illustr.* Hopsford, *Adams.* Bilton, *Rugby Sch. Rep.*

**Ag. coronillus**, *Bull.*

Waysides. Rare. Near Coventry, *Adams, Cooke, Illustr.*, pl. 535A. Sutton Park; Coleshill Pool.

**Ag. melaspermus**, *Bull.*

Rare. September-October. Heathcote Farm, Warwickshire, *Perceval.* Kenilworth, *Russell, Illustr.*

**Ag. squamosus**, *Fr.*

Woods. Rather rare. September-October. Kenilworth, *Russell, Illustr.* Sutton; Trickle Coppice, abundant.

**Ag. thraustus**, *Kalch*, var. *aurantiacus*.

Amongst grass. Rare. Sutton; Packington Park, *Cooke, Illustr.*, t. 555.

**Ag. luteo-nitens**, *Fr.*

On sawdust, &c. Rare. Crackley Wood, Kenilworth! *Cooke, Grev.* xiv. 37; *Illustr.* pl. 604.

**Ag. merdarius**, *Fr.*

Fields. Rare. Binley Lane, *Adams*.

**Ag. stercorarius**, *Fr.*

On dung. October. Binley Lane, *Adams*. On dung, pine wood, Coleshill Heath, October, 1884; Edgbaston Park.

**Ag. semiglobatus**, *Batsch*.

On dung. Very common. September to November.

Crackley Lane, Kenilworth! *Russell, Illustr.* Common in fields, Ansty, *Adams*. Sutton Park; Middleton; Kingsbury; Marston Green; Coleshill Pool; Edgbaston; Olton; Packington Park, &c.

"I have found, in Sutton Park, an *albino* form, with the gills white owing to the non-development of the spores."—W. B. G.

Sub-genus XXVII.—HYPHOLOMA. *Fr.***Ag. sublateritius**, *Fr.* *Ag. fascicularis*, var. 2, *Purt.* Vars. 3 and 4, *With.*

On old stumps. Frequent. October.

Edgbaston, *With.* 264. Ragley Wood, *Rufford in Purt.* iii. 225. Warwick, *Perceval*. Crackley Wood! and Kenilworth, *Russell, Illustr.* Ansty, *Adams*. Sutton Park; New Park: Coleshill Pool; Kingsbury Wood; near Three Pots, Watling Street; Umberslade; Grove Park; &c.

**Ag. epixanthus**, *Fr.*

On stumps. October. Hopsford, near Brinklow, *Adams*. Sutton?

**Ag. fascicularis**, *Huds.*

Old stumps. Very common. October. Edgbaston, *With.* 263. Warwick, *Perceval*. Crackley Wood! *Russell, Illustr.* Ansty, *Adams*. Sutton Park; Coleshill Pool; Middleton; Kingsbury Wood; Fillongley; Packington Park; Kingswood; Spennall; Leamington, &c.

**Ag. lacrymabundus**, *Fr.*

Stumps, and on the ground. October.

Footposts, Station Road, Kenilworth, *Russell, Illustr.* On banks near Cut-throat Wood, Solihull; Alveston Pastures; near Stratford-on-Avon; Grove Park.

**Ag. velutinus, Pers.**

On stumps. August to October.

Warwick, *Perceval*. Dale House Lane and Crackley Lane, Kenilworth, *Russell, Illustr.* Fields, Ansty, *Adams*. Trickley Coppice; New Park; Wainbody Wood, near Kenilworth; Gannaway Grove; Austey Wood; Marston Green; Olton; Packington Park; Langley.

**Ag. Candolleanus, Fr.**

On stumps. September-October.

Shilton, near Coventry, *Adams*. Knowle, *Hawkes!* Trickley Coppice; Shawberries Wood, Shustoke; Solihull; Alveston Pastures; Langley.

**Ag. appendiculatus, Bull.**

Stumps, &c. October. Common.

Cherry Orchard, Edgbaston, *With.* 282. Oversley; Wixford, *Purt.* iii. 230. Red Lane, Kenilworth, *Russell, Illustr.* The Fields, Combe, *Adams*. Aston Park; Sutton Park; New Park, Middleton; Bretnal Wood, near Atherstone; Packington Park; Penns; Shustoke; Arrow; Baginton Park, &c.

**Ag. egenulus, B. et Br.**

Amongst grass. October. Spinny, near Newbold-on-Avon, *Adams*.

**Ag. hydrophilus, Bull. Ag. piluliformis, Purt.**

In woods. September-October.

Ragley Wood, *Purt.* iii. 234. Hopsford, near Brinklow, *Adams*. New Park, Middleton; Sutton Park; Trickley Coppice; Corley; Shirley. "I agree with those who consider *Ag. piluliformis* to be the young state of this species."—W. B. G.

**Sub-genus XXVIII.—PSILOCYBE. Fr.****Ag. sareocephalus, Fr.**

Very rare in England. At base of trunks, Crackley Wood, Kenilworth, September, 1885, *Cooke, Illustr.*, pl. 620.

**Ag. ericæus, Pers.**

Pastures. Rare. August to October.

Field, Birmingham Road, Kenilworth, *Russell, Illustr.* Sutton Park, October, 1883, *Cooke*. Trickley Coppice.

**Ag. udus, Pers.**

Boggy places. Rare. September to November. Sutton Park; New Park, Middleton; Coleshill Pool; Windley Pool; Trickley Coppice.

**Ag. areolatus**, *Klotsch.*

Gardens. Rare. September. Stoneleigh, 1872, *Perceval.*

**Ag. atro-rufus**, *Schaff.*

Very rare.

Amongst grass. Windley Pool, Sutton, December, 1884. "Differing from the type in the attachment of the gills, and perhaps somewhat doubtful. I have found exactly the same species on the Rowley Hills, Staffordshire. It is figured from the Sutton specimens in Cooke, *Illustr.*, pl. 571."  
—W. B. G.

**Ag. comptus**, *Fr.* *Ag. comptulus*, *Russell.*

Crackley Wood, Kenilworth, May, 1872, *Russell, Illustr.* Wainbody Wood, Stoneleigh.

**Ag. semilanceatus**, *Fr.*

Damp pastures and grassy footways. Frequent.

Warwick, *Perceval.* Kenilworth, *Russell, Illustr.* The Fields, near Ansty, *Adams.* Sutton Park; Middleton Heath; Trickley Coppice; Maxstoke; Crackley Wood, Kenilworth; Langley; Coleshill Heath Edgbaston; Corley; Kingswood; Grove Park.

**Ag. spadiceus**, *Fr.*

Woods, &c. Frequent. October.

Dale House Lane, Dunn's Pits Lane, Burton Green Wood, Kenilworth, *Russell, Illustr.* Trickley Coppice; New Park; Maxstoke; Coleshill Heath Packington; Sutton Park; Umberslade.

**Ag. cernuus**, *Müll.*

Kenilworth, *Russell, List.*

**Ag. fœnisecii**, *Pers.* *Ag. rubiatus?* With. 278.

Amongst grass. August-September.

Lawn, Clarendon Villa; Dunn's Pits Lane, Kenilworth! *Russell, Illustr.* The Fields, near Ansty, *Adams.* Aston Park; Bannersley Pool; Coleshill Heath; Packington Park.

**Ag. olivensis**, *Berk.*

Dunn's Pits Lane, Kenilworth, *Russell, Illustr.*

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Sub-genus **XXIX.**—PSATHYRA.

**Ag. conopileus**, *Fr.*

Gardens. Rare. August. Garden, Clarendon Villa, Kenilworth, *Russell, Illustr.*

**Ag. mastiger, B. et Br.**

Waysides. September-October. Hopsford, near Brinklow, *Adams*. Footways, near Trickle Coppice, October, 1883, *Cooke*.

**Ag. corrugis, Pers. Ag. corrugatus? With.**

Pastures. Not common. September-October.

Packington Park, *With*. 278. Pastures, Kenilworth; meadows by the Castle, Kenilworth, *Russell, Illustr.* The Moats, Ansty, *Adams*. Sutton Park; Old Chester Road; New Park; Marston Green; Corley; Edgbaston.

**Ag. spadiceo-griseus, Schæff.**

August to October. Ditch, among dead leaves, Parkfield, Kenilworth, *Russell, Illustr.* Trickle, September, 1883.

**Ag. obtusatus, Fr.**

On the ground. Rare. June. Crackley Wood, Kenilworth, June, 1872, *Russell, Illustr.*

**Ag. semivestitus, Berk. et Br.**

Fields. Rare. Hopsford, *Adams*.

**Ag. fibrillosus, Pers.**

Woods. Rare. October. Crackley Wood, Kenilworth, *Russell, Illustr.* Westwood Coppice, Sutton Park; New Park; Corley.

**Ag. pennatus, Fr.**

On soil. Rare. October. School Rough, Marston Green; Lady Wood, Four Oaks.

**Ag. gossypinus, Bull.**

Woods. Rare. Crackley Wood, Kenilworth, May, 1872, *Russell, Illustr.*

**Sub-genus XXX.—PANÆOLUS.****Ag. separatus, Linn. Ag. semi-ovatus, With.**

On dung. Frequent. August to November.

Warwick, *Perceval*. Kenilworth! *Russell, List*. Gardens and fields, Ansty, *Adams*. Sutton Park; Coleshill Heath; Stoneleigh; Packington Park.

**Ag. leucophanes, B. et Br.**

Grassy fields. September. Aston Park, 1883, *Cooke*.

**Ag. fimiputris, Bull.**

Fields and pastures, on dung. Not rare. October.

Meadow near the Castle, Kenilworth! *Russell, Illustr.* The Fields, near Ansty, *Adams.* Sutton Park; Trickle Coppice; New Park; Edgbaston; Packington Park.

**Ag. phalænarum, Fr. Ag. semi-ovatus, var. 2, With.**

On dung. September to November. Edgbaston Park, *With.* 291 Hotbeds and fields, Ansty, *Adams.* Aston Park, 1883, *Cooke.* Packington Park.

**Ag. retirugis, Fr.**

On dung. October.

Manure heaps, Dunn's Pits Lane, Kenilworth, *Russell, Illustr.* Lady Adams's garden, Ansty; Brinklow Lane, *Adams.* New Park, Middleton; Trickle Coppice.

**Ag. campanulatus, Linn.**

Fields. Not rare. September-October.

Field near Kenilworth, *Russell, Illustr.* Field, Ansty, *Adams.* Causton, *Rugby Sch. Rep.* Crackley Wood; Water Orton; Coleshill Pool; Sutton Park; Edgbaston; Four Oaks; Packington Park; Trickle Coppice; Bradnock's Marsh.

**Ag. papilionaceus, Fr.**

Cultivated land. September.

Red Lane, Kenilworth, *Russell, Illustr.* Combe Fields, *Adams.* Kingsbury; Sutton Park; Packington Park; Marston Green.

**Ag. acuminatus, Fr.**

On dung. Very rare.

Sutton. "I was formerly inclined to call this *Ag. fimicola*, but on comparison with *Cooke, Illustr.*, pl. 632, I am convinced that it is *Ag. acuminatus.*" —W. B. G.

**Sub-genus XXXI.—PSATHYRELLA.****Ag. gracilis, Fr.**

Amongst grass by waysides. No doubt frequent, but overlooked. Warwick, *Perceval.*

**Ag. pronus, Fr.**

Amongst grass. October. Meadows behind Kenilworth Castle, *Russell, Illustr.*

**Ag. atomatus, Fr.**

Dunn's Pits Lane, Kenilworth, *Russell, Illustr.* Ansty! *Adams.* Solihull Edgbaston Park.

**Ag. disseminatus, Fr. Ag. minutulus, With.**

On old trunks of trees. October.

In Lord Aylesford's Park at Packington! *With.* On old stumps, Ansty. *Adams.* Lawn, Clarendon Villa, Kenilworth, *Russell, Illustr.* Sutton; Water Orton.

**Genus II.—COPRINUS. Fr.****C. comatus, Fr.**

Sides of roads, &c. Frequent. September-October.

The Spring, Kenilworth, *Russell, Illustr.* Warwick, *Perceval.* School Close, Rugby; near Bilton, *Rugby Sch. Rep.* The Moats, Ansty, *Adams.* Edgbaston! *Southall.* Sutton; Water Orton; Sheldon; Solihull, &c.

**C. ovatus, Fr.**

Pastures. September. Tree Piece, Ansty, *Adams.*

**C. sterquilinus, Fr. Ag. cylindricus, var. 2, With.**

Rare. In the garden field at Edgbaston, July, *With.* 281. Withering quotes *Ag. oblectus*, Bolt., t. 142. Old hotbed, Ansty, *Adams*, July, 1884 = *Cooke, Illustr.*, pl. 660.

**C. atramentarius, Fr.**

About old stumps. *Ag. ovatus*, With., *Purt.* "In my garden" (Alcester), *Purt.* iii. 426. Abbey Field, and near Kenilworth, *Russell, Illustr.* Hopsford, *Adams.* Sutton; Sutton Park; Edgbaston Park (which is doubtless also Withering's locality, p. 287); Trickley Coppice; Rugby; Old Park, near Arrow; Austey Wood; Corley; Coughton, &c.

**C. picaceus, Fr.**

Roadsides. Rare. Between Alcester and Dunnington, on the side of the turnpike road, December 5, 1820, *Piercy in Purt.* iii. 233.

**C. similis, B. et Br.**

On trunks of dead trees. Rare. Sutton, on logs of timber, found several years in succession.

**C. fimetarius, Fr.**

Pastures and roadsides. June to October. Ansty, *Adams.* Sutton; Coleshill Heath.

**C. tomentosus, Fr.**

Amongst grass. Rare. June to October.

Sutton; Water Orton. My specimens agreed exactly with Bolton's figure, t. 156, and were "not expanded."—W. B. G.

**C. niveus, Fr.**

On horse dung. Common. September-October.

The Spring, Kenilworth! *Russell, Illustr.* Ansty, *Adams*. Near Bilton, *Rugby Sch. Rep.* Sutton; Trickley Coppice; pine wood, Coleshill Heath; Edgbaston Park; Packington Park; Langley; Berkswell, &c.

**C. micaceus, Fr.**

About old stumps. Common. June to October.

Warwick, *Perceval*. The moats and fields, Ansty, *Adams*. Bilton; School Close, *Rugby Sch. Rep.* Oscott; Sutton; Middleton; Packington Park; Berkswell; old stumps, Kenilworth; Coventry Road, Kenilworth; Leamington; Erdington, &c.

**C. radians, Fr.**

On plaster walls. Rare. August to November.

Growing from the crack of a white-washed ceiling in a cottage at Kenilworth, *Russell, Illustr.* Abundant in an unoccupied house, the Crescent, Birmingham, the roof of which had let in rain for many months.

**C. deliquescens, Fr.**

Old stumps. October. Warwick, *Perceval*. School Close, *Rugby Sch. Rep.* Grassy glade in High Wood, Combe, *Adams* (?)

**C. congregatus, Fr.**

On the ground. Rare.

In clusters on the Milking Bank, Edgbaston, in a hollow where an elm tree had been fallen, 31st October. The crops repeated the same season. In a similar situation in the Grove, 14th April, *With.* 275. Perhaps only a smooth form of *C. micaceus*.

**C. Hendersonii, Berk.**

On dung. September. On horse dung, in Crackley Wood, September, 1861, *Russell, Illustr.*

**C. lagopus, Fr.**

On dung. September.

Red Lane, Kenilworth, *Russell, Illustr.* Alveston Pastures, beautifully covered with white flocci, but very deliquescent; on dung in garden, Aston.

**C. nycthemerus, Fr.**

Very rare. October. On tan heaps, Kenilworth, *Russell, Illustr.*

**C. radiatus, Fr.**

On dung. July to October. School Close, *Rugby Sch. Rep.* Water Orton; Sutton; Dunchurch. Doubtless common; but easily overlooked.

**C. domesticus, Fr.**

In a bed chamber at Broom, growing upon the laths, *Purt.* iii. 232. The Lodge, Ansty, *Adams.*

**C. ephemerus, Fr.**

On dunghills. September. Dunn's Pits Lane, Kenilworth, *Russell, Illustr.*

**C. pileatilis, Fr.**

In pastures. August to October.

Kenilworth. *Russell, List.* Fields, Ansty, *Adams.* Fields, footway from Itchington Holt to the Banbury Road; Trickle Coppice; Sutton; Coleshill; Marston Green, &c.

**Genus III.—BOLBITIUS. Fr.****B. Boltonii, Fr. *Ag. flavidus*, Purt.**

Uncommon. September.

Salford, Bidford, Warwickshire, *Purt.* iii. 228. Purton's species may be only a form of *B. fragilis*. On an old rick frame, adjoining Brinklow Lane, *Adams.*

**B. fragilis, Fr. *Ag. equestris*, With.**

On dung. Rather rare. August to October.

Pastures, Edgbaston Park, *With.* 286. At Pophills, *Purt.* iii. 227. Kenilworth, *Russell, List.* Ansty, &c., *Adams.* Sutton; Water Orton; Coleshill Heath.

**B. titubans, Fr. *Ag. titubans*, Purt., With.**

Amongst grass. May to October.

Packington Park, *With.* 280. Oversley; Exhall, *Purt.* ii. 651. The Camp, Kenilworth, *Russell, Illustr.* Roadsides and fields, Ansty, *Adams.* Witton; Oscott; Driffold Lane, Sutton; Trickle Coppice; Four Oaks.

**B. apicalis, Smith.**

Pastures. Rare. Hopsford, *Adams.* School Close, *Rugby Sch. Rep.*

**B. tener**, *Berk.*

Overslade, *Rugby Sch. Rep.* (?)

**Genus IV.—CORTINARIUS.** *Fr.*

**Tribe I.—PHLEGMACIUM.**

**C. varius**, *Fr.*

Woods. Rare. October. Crackley Wood, Kenilworth, October, 1875,  
*Russell, Illustr.* Bentley Park, near Atherstone, *Blax.*

**C. cyanopus**, *Fr.*

Woods. Rare. September. Crackley Wood, Kenilworth, *Russell, Illustr.*

**C. varileolor**, *Fr.*

High Wood, Ansty, *Adams.*

**C. anfractus** *Fr.*

Beech woods. Rare. October. Ladies' Hill, Kenilworth, amongst trees,  
*Russell, Illustr.*

**C. multiformis**, *Fr.*

Woods. September. In woods, Kenilworth, *Russell, Illustr.*

**C. talus**, *Fr.*

Woods. September. Combe Ridings, *Adams.*

**C. glaucopus**, *Fr.* *Ag. glaucopus*, *With.*

Plantations, Edgbaston, *With.* 203. In pine wood, near Kenilworth, *Russell, Illustr.*

**C. calochrous**, *Fr.*

Birmingham Road and Dale House Lane, Kenilworth, *Russell, Illustr.*

**C. purpurascens**, *Fr.*

Woods. Rare. October. Warwick, *Perceval.* Crackley Wood, Kenilworth,  
1869, *Russell, Illustr.*

Var. *subpurpurascens*, *Fr.* Pastures, Edgbaston, *With.* 201.

**C. turbinatus**, *Fr.*

Woods. Rare. October. Crackley Wood, Kenilworth, 1871, *Russell, Illustr.*

**C. orichalceus**, *Batsch. Ag. orichalceus*, With.

September. Plantations at Edgbaston, *With.* 200.

**C. seaurus**, *Fr. Ag. glaucopus*, var. 2, With.

Packington Park, *With.* 203. Given on the authority of English Flora, vol. v., p. 86.

**Tribe II.—MYXACIUM.****C. collinitus**, *Fr. Ag. collinitus*, *Purt.*

Woods. October. Oversley Wood, *Purt.* iii. 181. Burton Green Wood ; copse, Birmingham Road, Kenilworth, *Russell, Illustr.* Gum Slade, Sutton Park ; Kingswood.

**C. mucifluus**, *Fr. Ag. mucosus*, With.

On the ground. October.

Packington Park, *With.* 196. Withering's description is evidently that of a Myxadium, § Colliniti, and agrees better with this species than with *C. collinitus*. High Wood, Combe, *Adams*.

**C. elatior**, *Fr.*

Woods. Local. October.

Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams*. Kingsbury Wood ; Water's Wood, Maxstoke ; Brown's Wood, Solihull ; Sutton Park ; Langley ; Wappenbury ; Grove Park, near Hatton ; Gannaway Grove.

**C. delibutus**, *Fr.*

On the ground, amongst trees. September-October. Windley Pool, Sutton Park, 1886-7.

**C. stillatitius**, *Fr.*

Birmingham Road, Kenilworth, October, 1886, *Russell, Illustr.*

**Tribe III.—INOLOMA.****C. violaceus**, *Fr. Ag. violaceus*, With.

Edgbaston, October to December, *With.* 204.

**C. callisteus**, *Fr.*

Woods. October. Burton Green Wood, Kenilworth, *Russell, Illustr.*

**C. bolaris, Fr.**

In woods. October.

School Rough, Marston Green, among leaves, 1886; very striking specimens, agreeing exactly with Fries' description, the beautiful saffron-red colour being "very elegant." In exactly the same spot, September, 1890.

**C. pholideus, Fr.**

In woods. October. Windley Pool, Sutton Park, 1888.

**Tribe IV.—DERMOCYBE.****C. ochroleucus, Fr.**

Woods. October.

Dale House Lane, Crackley Wood, 1871, *Russell, Illustr.* Trickley Coppice, 1883 and 1889; Duke Wood, Wappenbury; Hurdle Hall, near Bickenhill.

**C. tabularis, Fr.**

Woods. October. Common.

Woods near Kenilworth, *Russell, Illustr.* The Spring, Kenilworth, 1881; Sutton Park; Bradnock's Hayes; Langley; Trickley Coppice; Packington Park.

**C. caninus, Fr.**

October. Kenilworth, *Russell, List.* Olton Reservoir; Trickley Coppice; Umberslade.

**C. anomalus, Fr. Ag. araneosus, With., Purt.**

Woods. September-October.

Edgbaston Park, *With.* 198. Oversley Hill; Arrow, *Purt.* ii. 635. Warwick, *Perceval.* Trickley Coppice; School Rough, Marston Green; Maxstoke; Bentley Park; Newlands Wood, near Hatton; Wappenbury.

Withering's and Purton's Plants are referred here by Berkeley, *Eng. Fl.* p. 86, but, I think, hardly with certainty.—W. B. G.

**C. sanguineus, Fr.**

Woods. October. Crackley Wood, *Russell, Illustr.* Combe Ridings, *Adams.* School Rough, Marston Green; Sutton Park.

**C. cinnamomeus, Fr. Ag. cinnamomeus, Purt.**

Woods. October.

Oversley Wood, *Purt.* iii. 220. Crackley Wood, Kenilworth, *Russell, Illustr.* Trickley Coppice; pine wood, near Coleshill Pool; Windley Pool, Sutton Park.

**C. uliginosus, Berk.**

Damp woods. Crackley Wood, Kenilworth, October, 1871, *Russell, Illustr.*

**C. raphanoides, Fr.**

Woods. Burton Green Wood, October, 1866, *Russell, Illustr.*

**Tribe V.—TELAMONIA.****C. bulbosus, Fr. *Ag. bulbosus*, Purt.**

Woods. October.

In Oversley Lane, leading to the Mill, upon the bank next the River Arrow, 1811. *Purt. ii. 637.* Kenilworth, October, 1875, *Russell, Illustr.*  
Cut-throat Wood, near Solihull.

**C. torvus, Fr.**

Woods. Rare. September-October. Burton Green Wood, and wood near Kenilworth, *Russell, Illustr.* Meriden; Marston Green; Sperrall.

**C. armillatus, Fr.**

September. Amongst grass, Coleshill Pool, 1883, magnificent specimens.

**C. hinnuleus, Fr. *Ag. farinaceus*, var. 2, Purt.**

September-October.

On Marriage Hill, between Bidford and Salford, *Purt. iii. 214.* Crackley Wood! 1872, *Russell, Illustr.* Combe Ridings, *Adams.* Hampton-in-Arden; Shirley; Grove Park.

**C. brunneus, Fr. *Ag. spongiosus*, With.**

Packington Park, *With. 197.* Fries identifies his species with Withering's (*Hym. Eur. p. 381*). Trickley Coppice, October, 1889, during the Fungus Foray of the Vesey Club, in company with Dr. Cooke.

**C. periseelis, Fr.**

Boggy ground, Birmingham Road, near Kenilworth, *Russell, Illustr.*

**C. iliopodius, Fr.**

Woods. September. Wood near Warwick, *Perceval.* Woods, Kenilworth, *Russell, Illustr.*

**C. hemitrichus, Fr.**

October. Lawn, Ansty Hall, *Adams.* Sutton Park, a single specimen.

**C. rigidus, Fr.**

Trickley Coppice; specimens agreeing well with Fries' description were found October, 1889, during the Fungus Foray of the Vesey Club.

**C. paleaceus, Fr.**

September-October. School Rough, Marston Green; Corley Woods.

**Tribe VI.—HYDROCYBE.**

**C. armeniacus, Fr.**

Woods. October. Burton Green Wood (?) and Crackley Wood, Kenilworth, *Russell, Illustr.*

**C. castaneus, Fr.**

Woods and fields. Local. September-October.

Burton Green Wood, Kenilworth, *Russell, Illustr.* Trickley Coppice; Bradnock's Hayes; pastures near Oldbury Hall; Shawberries Wood; Coleshill Pool; Olton Reservoir; Duke's Wood, Wappenbury; Haywood; Alveston Pastures; Grove Park.

**C. leucopus, Fr.**

Woods. October. Birmingham Road and Crackley Wood, Kenilworth, *Russell, Illustr.* (*C. rigens*). High Woods, Combe, *Adams*. Trickley Coppice.

**C. decipiens, Fr.**

Woods. October. Burton Green Wood, Kenilworth, *Russell, Illustr.* Trickley Coppice, October, 1883, *Dr. Cooke*. Ansty, *Adams*. Brown's Wood, Solihull.

**C. acutus, Fr.**

Woods. Crackley Wood, September, 1870, *Russell, Illustr.*

**Genus V.—GOMPHIDIUS. Fr.**

**G. glutinosus, Fr. Ag. velatus, With., Purt.**

October. Pine woods. Plantations at Packington, *With.* 161. Ragley Woods, *Purt.* iii. 186. Causton, *Rugby Sch. Rep.* Pine wood, Coleshill Heath.

**G. viscidus, Fr. Ag. rutilus, Purt.**

Pine woods. October.

At Kinwarton, *Rufford in Purt.* ii. 629. School Close Avenue, *Rugby Sch. Rep.* Kingswood! *Hawkes*. Pine wood above Coleshill Pool; Packington Park; Hams Hall.

**G. maculatus**, *Scop.*

Woods. Very rare. Combe Ridings, *Adams*.

**G. gracilis**, *B. et Br.* *G. stillatus*, *Cooke*.

Pine woods. October. Rare. Wedgnoek Park, *Perceval*. Fir wood near Warwick, *Russell*, *Illustr.* Coleshill Heath.

**Genus VI.—PAXILLUS.****P. involutus**, *Fr.* *Ag. adustus*, *With.* *Ag. contiguus*, *With.*, *Purt.*

Woods. Frequent. September-October.

Edgbaston Park, under oak trees! *With.* 174. In the churchyard at Kinwarton, *Purt.* ii. 627. Ansty; Combe, *Adams*. Crackley Wood! Kenilworth, *Russell*, *Illustr.* Sutton Park; Trickley Coppice; New Park; Kingsbury Wood; pine wood, Coleshill Heath; Packington Park; Solihull; Haywood; Kingswood; Olton; Corley; Oversley Wood, &c.

The variety *excentricus truncigenus*, *Schæff.* t. 71, has occurred at Coleshill Pool and Windley Pool, Sutton Park, in the latter case growing from a tree trunk 3ft. above the ground.

**Genus VII.—HYGROPHORUS.****H. chrysodon**, *Fr.*

Woods. Rare. Crackley Wood, Kenilworth, October, 1870, *Russell*, *Illustr.*

**H. eburneus**, *Fr.* *Ag. nitens*, *With.*

Woods. October.

Packington Park, *With.* 153, *Eng. Flora.* v. 13. Waysides, Maxstoke; lane from Whitacre Station to Duke End—*Ag. nemoralis*, *With.*, Oversley Wood; Ragley Wood, *Purt.* iii. 225, may possibly belong here.

**H. arbustivus**, *Fr.*

Woods. September. The Spring, Kenilworth, *Russell*, *Illustr.*

**H. olivaceo-albus**, *Fr.*

Woods. October. Wood near Warwick, *Perceval*. Birmingham Road, Kenilworth, *Russell*, *Illustr.*

**H. hypothejus**, *Fr.*

Woods and waysides. Rare. October.

Wood near Warwick, *Perceval*. Under fir trees, Combe Ridings, *Adams*. Heathy waysides, near Coleshill Pool; pine wood, Coleshill Heath; Sutton Park; Water Orton.

**H. pratensis**, *Fr. Ag. fulvus*, With.

Fields and waysides. September-October.

Edgbaston Park, *With.* 176. Warwick, *Perceval*. Meadow and Abbey Fields, Kenilworth, *Russell, Illustr.* Combe Fields, *Adams*. Four Oaks; Middleton Heath; near Coleshill Pool; Langley; Water Orton; Watling Street, near Three Pots; Corley, &c.

*Ag. ericeus*, With. 170, "Packington Park; Edgbaston Park," and *Ag. claviformis*, With. 172, "garden field, Edgbaston," are probably only pale varieties of *H. pratensis*.

**H. virgineus**, *Fr. Ag. eburneus*, With.

Fields, &c. Frequent. October.

Edgbaston, *With.* 152. Warwick, *Perceval*. Dunn's Pits Lane, and Crackley Wood! Kenilworth, *Russell, Illustr.* Fields, frequent, about Ansty, *Adams*. School Close, Bilton; Newbold, *Rugby Sch. Rep.* Sutton; Middleton; Coleshill Heath; Olton; near Three Pots, Watling Street; Packington Park; Corley, &c.

**H. ventricosus**, *B. et Br.*

Amongst grass. Very rare. Kenilworth, *Russell, Cooke, Illustr.* t. 901.

**H. russo-coriaceus**, *Fr.*

Fields by Clarendon Villa, Kenilworth, October, 1875, *Russell, Illustr.*

**H. distans**, *Berk.*

Pastures. August-September. Dunn's Pits Lane and Echo Field, Kenilworth, *Russell, Illustr.* Kingswood, October, 1874.

**H. ovinus**, *Fr. Ag. compressus*, With.

In patches on therising ground opposite the stews, Edgbaston, 28th June, 1792, *With.* 239.

**H. Colemannianus**, *Blox.*

"Grassy places, Twycross, Warwickshire, *Blox.*" So recorded by Berkeley (*Ann. N. H.* 701), but Twycross is in Leicestershire. School Close, *Rugby Sch. Rep.*

**H. ceraceus**, *Fr. Ag. ceraceus*, With.

Pastures.

Dry pastures, Edgbaston, *With.* 258. Pastures by the Castle, Kenilworth, *Russell, Illustr.* Fields, Ansty, *Adams*. Fields near New Park; Shustoke Railway Station, October, 1882; Baddesley Clinton, 1884; abundant, Coughton; pine wood, Coleshill Heath; Packington Park; Sutton Park, &c.

**H. coccineus, Fr. *Ag. psittacinus*, var. 2, With.**

Pastures. Local. September-October.

Edgbaston, *With.* 259. Warwick, *Perceval*. Kenilworth; Stoneleigh Deer Park, *Russell, Illustr.* Combe Fields, *Adams*. Knowle, *Hawkes*. Witton; Sutton Park; Middleton Heath; Langley; Water Orton; Whitacre; Shustoke; Harthill; near Wolvey; Coleshill Pool and Heath; Olton; Arrow.

**H. miniatus, Fr.**

Moist heaths. Local. October.

Kenilworth, *Russell, List.* Sutton Park; pastures, Kenwalsey; footways, road from Hinckley to Nuneaton; heathy waysides, Coleshill Pool; Packington Park; Grove Park.

**H. puniceus, Fr.**

Fields. Rare. September-October. Field, near Kenilworth, *Russell, Illustr.* Combe Fields, *Adams*. Sutton Park; Langley; Grove Park.

**H. conicus, Fr. *Ag. aurantiacus*, var. 1, With.**

Pastures. September-October.

Edgbaston Park, *With.* 257. Warwick, *Perceval*. Kenilworth, *Russell, List.* Combe, *Adams*. Sutton Park; footways near New Park; Kingsbury; Shustoke; Coleshill Heath; Solihull; Hampton-in-Arden Grounds; Marston Green; Berkswell; Grove Park; Arrow Lane.

Var.  $\beta$  *lutea*. Aston Lane, Birmingham.

**H. calyptræformis, B. et Br. *Ag. aurantiacus*, var. 4, With.**

Pastures. Edgbaston, by the long stew in the Park, *With.* 258. Warwick Castle Park, *Perceval*. Kenilworth, *Russell, List.* Fields, Shilton, *Adams*.

**H. chlorophanus, Fr.**

Pastures. Rare. October.

School Close, *Rugby Sch. Rep.* Hopsford, *Adams*. Baddesley Park, *Hawkes!* Middleton Heath; Kingsbury; Edgbaston Park; Marston Green; Corley.

**H. psittacinus, Fr. *Ag. aurantiacus*, var. 3, With. *Ag. psittacinus*, With.**

Fields and waysides. Not rare. September-October.

Edgbaston Park, *With.* 257-259. Warwick, *Perceval*. Kenilworth, *Russell, List.* Witton, *Hawkes!* Combe! *Adams*. Sutton Park; Middleton; Kingsbury; Kenwalsey; Packington Park; Coleshill Pool; Langley; Marston Green; Coughton; Arrow.

**H. unguinosus, Fr.**

Pastures. Rare. October. Kenilworth, *Russell, List.* Hopsford, *Adams*. In a field, Corley; Grove Park.

## Genus VIII.—LACTARIUS.

**L. terminosus**, *Fr.* *Ag. terminosus*, *Purt.*

Wood and roadsides. Local. August to October. Oversley Wood ! *Purt.* ii. 626. The Hall Lane, Ansty, *Adams.* Lane leading to Hams Hall.

**L. ellicioides**, *Fr.* *Ag. Necator*, var. 2, *With.*

Woods. Rare. September-October.

Under large Spanish chestnut trees in the park at Edgbaston, *With.* 176. Kingsbury Wood ; New Park, Middleton ; Langley ; Trickley Coppice.

**L. turpis**, *Fr.*

Woods. Local. September-October.

Trickley Coppice ; New Park ; Coleshill Pool ; pine wood, Coleshill Heath ; Sutton Park ; Edgbaston Park ; Marston Green ; All Oaks, Cathiron Lane ; Hams Hall.

**L. controversus**, *Fr.*

Fields. Rare. October. Under poplars, Hopsford, *Adams.* Field in lane from New Park to Langley Brook, in the company of *Dr. Cooke*, October, 1884.

**L. insulsus**, *Fr.*

Woods. Rare. October.

Burton Green Wood, Kenilworth, *Russell, Illustr.* Ansty Fields, *Adams.* Haywood ; Alveston Pastures ; Packington Park ; Berkswell.

**L. zonarius**, *Fr.* *Ag. zonarius*, *With.*, *Purt.*

Borders of woods. Rare. October.

Dam of the great pool in Edgbaston Park, *With.* 190. Arrow and Oversley Hill, *Purt.* ii. 632. Crackley Wood ! Kenilworth, 1872, *Russell, Illustr.* Crackley Wood, 1881.

**L. utilis**, *Weinm.*

On the ground. Very rare. September.

Field near Grove Park, *Cooke, Illustr.* 1084. This was the first time this had been recorded for Britain. It was very abundant, and varied in the size of pileus from about 3 to 8 inches broad.

**L. blennius**, *Fr.* *Ag. Listeri*, var. 5, *With.*

Woods. Rare. October.

In Lord Aylesford's Park at Packington, *With.* 157. Combe Wood, *Adams.* Edgbaston Park ; Baddesley Clinton.

**L. hysginus**, *Fr. Ag. depressus*, With. Woods.

Edgbaston Park ! *With.* 178. Crackley Wood, Kenilworth, *Russell, Illustr.*  
Water's Wood, Maxstoke.

**L. circellatus**, *Fr.*

Red Lane, Kenilworth, September, 1866, *Russell, Illustr.*

**L. uvidus**, *Fr. Ag. livido-rubescens*, With.

Woods. Rare. August to October.

Edgbaston Plantations, *With.* 172. Combe Ridings ! *Adams.* Water's Wood,  
Maxstoke ; Windley Pool ; Coleshill Pool ; Four Oaks ; Langley.

**L. pyrogalus**, *Fr.*

Woods and meadows. August to October.

Crackley Wood ; Burton Green Wood ; Red Lane, Kenilworth, *Russell, Illustr.* Combe Wood, *Adams.* Shawberries Wood, Shustoke ; New Park ; Trickley Coppice ; The Grounds, Hampton-in-Arden ; The Grounds, Baddesley Clinton ; Rowington ; Coleshill Heath ; Packington Park ; Shirley Street ; Spennall.

**L. chrysorheus**, *Fr.*

Woods. October. Birmingham Road, Kenilworth, October, 1866, *Russell, Illustr.* The Ridings. Combe, *Adams.* Corley.

**L. plumbeus**, *Fr.*

Woods. Rare. Crackley Wood, *Russell, Illustr.* Combe, *Rugby Sch. Rep.* Stoneleigh, *Perceval.*

**L. pergamenus**, *Fr.*

Woods. September-October. Kingswood ; Ragley and Oversley Woods ; Cubbington and Waverley Woods, near Stoneleigh ; Wainbody Wood near Kenilworth.

**L. piperatus**, *Fr. Ag. Listeri*, var. 2 (?) With.

Woods, under large beech trees.

Edgbaston, *With.* 157. Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams.* Water's Wood, Maxstoke ; Newlands Wood, near Hatton.

**L. vellereus**, *Fr. Ag. Listeri*, Sow. 104, Purt.

Ragley Woods ; Oversley Wood, *Purt.* ii. 624. Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams.* Water's Wood, Maxstoke ; Alveston Pastures ; Packington Park ; Edgbaston Park ; New Park ; Spennall.

**L. deliciosus, Fr.**

Woods. September-October. Under fir trees, Combe Ridings, *Adams*. Sutton Park; Coleshill Pool; pine wood, Coleshill Heath; Cathiron Lane.

**L. pallidus, Fr.**

Woods. October. Lodge Wood, Warwick, *Perceval*. Combe, *Adams*. Trickley Coppice; New Park, Middleton; Water's Wood, Maxstoke; Four Oaks.

**L. quietus, Fr.**

Woods. September-October.

Warwick, *Perceval*. Kenilworth, September, 1872, *Russell, Illustr.* Combe! *Adams*. Sutton Park; Trickley Coppice; New Park; Water's Wood, Maxstoke; spinny near Three Pots, Watling Street; pine wood, Coleshill Heath; Solihull; Burton Green; Berkswell; Marston Green; Packington Park; Corley; Bradnock's Hayes; Cubbington Wood; Grove Park; Haywood, &c.

**L. theiogalus, Fr.**

Woods. October. Burton Green Wood, Kenilworth, *Russell, Illustr.*

**L. cyathula, Fr.**

Wedgnock Park, *Perceval*. Burton Green Wood, October, 1863. *Russell, Illustr.*

**L. rufus, Fr.**

Fir woods. September to November.

Warwick, *Perceval*. The Spring and Burton Green Wood, Kenilworth; Old Park Wood, Warwick, *Russell, Illustr.* Combe Park. *Adams*. Sutton Park; New Park, Middleton; pine wood, Coleshill Heath, and Pool; Alveston Pastures; Four Oaks.

**L. glyciosmus, Fr.**

Fir woods. September-October.

Combe Ridings, *Adams*. New Park; Trickley Coppice; Shawberries Wood, Shustoke; Water's Wood, Maxstoke; Windley Pool, Sutton Park; Edgbaston Park; Coleshill Pool and Heath; Solihull.

**L. fuliginosus, Fr.**

Woods. October. Warwick, *Perceval*. Crackley Wood, Kenilworth, *Russell, Illustr.* Ansty, *Adams*. Shepherd's Wood, Solihull; Packington Park.

**L. volemus, Fr.**

Combe, *Rugby Sch. Rep.*

**L. serifluus**, *Fr.* *Ag. serosus*, With.

Wood and pastures. October.

Pastures, Edgbaston, *With.* 165. Warwick, *Perceval*. Burton Green Wood and the Castle Moat, Kenilworth, *Russell, Illustr.* Line's Spinny, near Rugby, *Rugby Sch. Rep.* Sutton Park; Cut-throat Wood, Solihull.

**L. mitissimus**, *Fr.*

Woods and hedge banks. September-October.

Warwick, *Perceval*. Crackley and Burton Green Woods, Kenilworth, *Russell, Illustr.* Combe, *Adams*. Baddesley Park, *Hawkes*. Sutton Park; hedge bank, Old Chester Road; New Park; Trickley Coppice; Shawberries Wood, Shustoke; Kingsbury Wood; woods, Maxstoke; The Grounds, Hampton-in-Arden; Coleshill Pool and Heath; Four Oaks; Grove Park.

**L. subduleis**, *Fr.* *Ag. dulcis*, With. *Ag. lactifluus*, *Purt.*

Woods. September-October.

Plantations, Edgbaston, *With.* 171. Oversley Wood! *Purt.* ii. 625. Warwick, *Perceval*; Crackley Wood, Kenilworth! *Russell, Illustr.* Hopsford! *Adams*. Sutton Park; New Park; Trickley Coppice; Bradnock's Hayes; School Rough, Marston Green; Shustoke; Coleshill Pool; Packington Park; Edgbaston Park; Shirley Street; Grove Park; Haywood, &c.

**L. camphoratus**, *Fr.* *Ag. cimicarius*, With., *Purt.* *Ag. camphoratus*, *Purt.*

Woods. August to November.

In the park at Packington, *With.* 171. Coughton Park, in the thickest part of the wood. *Purt.* iii. 192. Oversley Wood, iii. 193. Trickley Coppice; Haywood; Kingsbury Wood; Edgbaston Park.

Genus IX.—RUSSULA *Fr.***Russula nigricans**, *Fr.* *Ag. elephantinus*, With., *Purt.*

Woods. September-October.

Edgbaston Park! *With.* 194. Ragley Woods and Park! *Purt.* ii. 204. Warwick, *Perceval*. Birmingham Road, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams*. Sutton Park; Trickley Coppice; New Park; Shawberries Wood; Kingsbury Wood; Water's Wood, Maxstoke; Whey-porridge Lane, Solihull; Oldbury Wood, near Mancetter; Hazelwood, Honiley; Oversley Wood; Coleshill; Marston Green; Umberslade; Spennall; &c.

**R. adusta**, *Fr.*

Woods. October. Rare. Combe Ridings, *Adams*. Coleshill Pool; New Park; Trickley Coppice; Whey-porridge Lane, Solihull.

**R. delica, Fr.**

Rare. Birmingham Road, Kenilworth, *Russell, Illustr.* Combe, *Adams.*  
Kenilworth, 1882 ! *Cooke, Illustr.* 1068.

**R. furecata, Fr.**

Woods. September-October. Barton Green Wood, Kenilworth, *Russell, Illustr.* Corley, *Adams.*

**R. sanguinea, Fr.** *Ag. integer*, var. 4, *sanguineus*, With.

Edgbaston, *With.* 191.

**R. rosacea, Fr.**

Woods. Rare. September-October.

Wedgcock Park, *Perceval.* Burton Green Wood, Kenilworth, *Russell, Illustr.*  
Crackley Wood, Kenilworth, in the company of *Dr. Cooke*, October, 1883.

**R. sardonica, Fr.**

Fir woods. Rare. Bubbenhall, near Warwick, September, 1852, *Russell, Illustr.*

**R. depallens, Fr.**

Woods and fields. September to November.

The Dale, Kenilworth, *Russell, Illustr.* New Park; Trickle Coppice;  
footways near Coleshill Pool; Sutton Park; Marston Green; Edgbaston  
Park.

**R. drimeia, Cooke.**

Woods. Rare. October-November. Pine wood, Coleshill Heath, named by  
*Dr. Cooke.* Sutton Park.

**R. virescens, Fr.**

Woods. Rare. August to October.

Crackley Wood, Kenilworth, *Russell, Illustr.* Combe, *Adams.* Near Hams  
Hall; Sutton Park; Marston Green; Umberslade.

**R. lepida, Fr.**

Woods. Rare. Red Lane, Kenilworth, *Russell, Illustr.*

**R. rubra, Fr.**

Woods. August to October.

Burton Green Wood; Crackley Wood, Kenilworth, *Russell, Illustr.* New  
Park; Trickle Coppice, in company of *Dr. Cooke.* Coleshill Pool;  
The Spring, Kenilworth; Sutton Park; Packington Park.

**R. Linnæi, Fr.**

In woods. Very rare. October. Crackley Wood, Kenilworth, October, 1885! *Cooke, Illustr.* 1026.

**R. vesca, Fr.**

Woods. Rare. October. Warwick, *Perceval*. Sutton Park, in company with *Dr. Cooke*, 1888.

**R. cyanoxantha, Fr.**

Woods, &c. Frequent. September-October.

Birmingham Road, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams*. Sutton Park; New Park; Trickle Coppice; Edgbaston Park; Packington Park; Bentley Park; Ironstone Wood, Oldbury; near Coleshill Pool; Plant's Brook; Solihull; Maxstoke; All Oaks, Cathiron Lane; Coughton Park; Haywood; Austey Wood; Wootton Wawen; Corley; Ladies' Wood, Ragley; Berkswell; Marston Green; Shirley Street, &c.

**R. heterophylla, Fr.**

Woods, Warwick, *Perceval*. The Dale House Lane, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams*. Fen End; Marston Green.

**R. consobrina, Fr. Var. sororia, Larbr.**

Woods. Rare. October. Gathered in Trickle Coppice, Middleton Heath, in company of *Dr. Cooke*, 1884.

**R. foetens, Fr.**

Woods and roadsides. Sometimes fragrant. October.

Warwick, *Perceval*. Crackley Wood and The Briars, Kenilworth, *Russell, Illustr.* Ansty, *Adams*. School Close, *Rugby Sch. Rep.* Water's Wood, Maxstoke; Kingsbury Wood; Trickle Coppice; Solihull; Sutton Park; Berkswell; Fen End; Edgbaston Park; Coleshill Pool; Packington; Stoneleigh Abbey; Sperrall.

**R. fellea, Fr.**

Woods. Rare. Borders of Upper Nuthurst, Sutton Park! *Dr. Cooke*. Combe, *Adams*. New Park; Four Oaks; Bradnock's Hayes; Edgbaston Park.

**R. Queletii, Fr.**

Pine woods. Rare. October. Pine wood, Marston Green, 1882, named by *Dr. Cooke*.

**R. emetica, Fr.**

Woods. Local. September-October.

Warwick, *Perceval*. Crackley Wood ! *Russell, Illustr.* Combe, *Adams*. Bad-desley Park, *Hawkes* ! Sutton Park ; Trickley Coppice ; New Park ; Shawberries Wood ; Kingsbury Wood ; Ironstone Wood, Oldbury ; woods, Maxstoke ; Solihull ; Coleshill Heath and Pool ; near Harborough Magna ; Old Park Wood, near Alcester ; Chelmsley Wood ; Edgbaston Park, &c.

**R. ochroleuca, Fr.**

Fir woods. October. Local.

Crackley Wood, Kenilworth ! *Russell, Illustr.* Sutton Park ; Trickley Coppice ; New Park ; pine wood, Coleshill Heath ; Corley ; woods, Maxstoke ; Bradnock's Hayes ; Marston Green ; Solihull.

**R. citrina, Gill.**

Woods. Local. September-October. Sutton Park ; Trickley Coppice ; Water's Wood, Maxstoke ; Edgbaston Park.

**R. fragilis, Fr.**

Woods. September-October.

Birmingham Road, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams*. Sutton Park ; Trickley Coppice ; New Park ; Birch Moor Stump, Max-stoke ; Coleshill Pool and Heath ; Olton Reservoir ; Solihull ; Bradnock's Hayes.

Var. *violacea*, Trickley Coppice.

Var. *alba*, Windley Pool, Sutton Park.

**R. integra, Fr.**

Woods. August to October.

Crackley Wood, Kenilworth, *Russell, Illustr.* Ansty, *Adams*. Sutton Park ; Trickley Coppice ; New Park ; Plant's Brook Reservoir ; Parley Park, Atherstone ; Coleshill Pool ; Haywood ; Edgbaston Park ; Berkswell ; Balsall Street ; Packington Park ; Marston Green ; Corley.

Var. *alba*, Sutton Park, 1888, *Cooke, Illustr.* 1084.

**R. decolorans, Fr.**

Woods. September. Crackley Lane, *Russell, Illustr.* (?) High Wood, Combe, *Adams*.

**R. aurata, Fr. Ag. auratus, With.**

Under trees. Rare. October. Under a large oak near second stew, Edgbaston Park, *With.* 194.

**R. veteriosa, Fr.**

On the ground. Rare. Near Ansty, *Adams*.

**R. nitida, Fr.**

Woods. Rare. October. Avenue (Rugby?) *Rugby Sch. Rep.*

**R. claroflava, Grove.**

Very rare. September-October. In the marshy wood at the head of Windley Pool, Sutton Park. See *Mid. Nat.*, 1888, p. 265.

**R. alutacea, Fr.**

Woods. October.

Warwick, *Perceval*. Kenilworth! *Russell, List*. Ansty, *Adams*. School Close, *Rugby Sch. Rep.* Woods, Sutton Park; New Park; Water's Wood, Maxstoke; Wainbody Wood, Kenilworth; Cornets End, Berkswell; Fen End, Marston Green.

**R. lutea, Fr. Ag. integer, var. 6, With.**

Woods. Rare. August-September.

Edgbaston Park, *With*. 192. Crackley Wood, *Russell, Illustr.* Combe Ridings, *Adams*! Trickle Copple.

**R. chamæleontina, Fr.**

Under trees, Hopsford, *Adams*.

**Genus X.—CANTHARELLUS. Adams.****C. cibarius, Fr. Merulius cantharellus, With., Purt.**

In woods. Rare. September-October.

Red Rock Plantation, Edgbaston Park, *With*. 148. Ragley Woods! Oversley Hill and Wood, *Purt*. ii. 621. Warwick, *Perceval*. Crackley Wood, Kenilworth, *Rev. Mr. Knowles*. Combe Woods, *Adams*. Bentley Park, *Bloxam*. Kingswood, *Hawkes*! Coleshill Heath; Shawberries Wood; wood on the Ridgeway, near Coughton Park.

**C. aurantiaeus, Fr. Ag. sub-cantharellus, Purt.**

Woods and heathy places. October.

Studley Common, *Purt*. iii. 184. Hopsford, near Brinklow, *Adams*. Pool Hollies Wood, 1881; Sutton Park; Fen End; Packington Park; Coughton Park, &c.

In Sutton Park whitish forms occur on the heathlands; the variety *nigripes* is also common.

**C. tubæformis, Fr.**

Rare. September-October. Bentley Park, 1849, *Bloxam*. The Ridings, Combe, *Adams*. Shawberries Wood, Shustoke.

**C. infundibuliformis, Fr.**

Woods. Rare. Bentley Park, 1849, *Bloxam*.

**C. museigenus, Fr. *Merulius muscigenus*, var. 2, With.**

On moss in Packington Park, *With*. 150.

**C. lobatus, Fr. *Merulius membranaceus*, Purt.**

At Pophills, growing on moss, *Mrs. Rufford in Purt.* iii. 181.

**Genus XI.—NYCTALIS.****N. asterophora, Fr.**

Woods. Rare. September-October.

The Ridings, Combe, *Adams*. Wood near Hams Hall, on *Russula nigricans*.

I do not see in this anything more than *N. parasitica*, bearing the conidia of *Hypomyces asterophorus*.—W. B. G.

**N. parasitica, Fr. *Ag. umbratus*, With.**

Woods. Rare. August-October.

Red Rock Plantation, Edgbaston. *With*. 197. Wood, Red Lane, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams*. On decaying *Russula fetens* in Cut-throat Wood, Solihull; New Park. Middleton; Spennall, on *R. nigricans*.

**Genus XII.—MARASMIUS. Fr.****M. urens, Fr.**

Woods. August to October.

Warwick. *Perceval*. Crackley Wood! Kenilworth, *Russell, Illustr.* Combe Ridings! *Adams*. Sutton Park; New Park; Cut-throat Wood, Solihull; The Spring, Kenilworth.

**M. peronatus, Fr. *Ag. peronatus*, Purt.**

Woods, amongst leaves. October.

Ragley Woods, *Purt.* iii. 207. Crackley Wood! Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams*. Sutton Park; New Park; Trickley Coppice; Coleshill Heath; Ironstone Wood, Oldbury; Bradnock's Hayes; Spennall; Packington Park, &c.

**M. porreus, Fr. *Ag. alliaceus*, Purt.**

In woods, amongst leaves. September-October.

Maxstoke, *Bree in Purt.* ii. 650. Abundantly in Oversley Wood, 1818, *Purt.* iii. 421. Crackley Wood, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams*.

**M. oreades**, *Fr. Ag. oreades*, With.

In pastures, forming rings. August to October. Not common.

Edgbaston, hedge banks, pastures, in small or large patches, particularly in fairy rings, *With.* 218. Warwick, *Perceval*. Dunn's Pits and Dale House Lanes, Kenilworth! *Russell, Illustr.* Ansty, *Adams*. Oscott; Sutton Park; Stonebridge; Maxstoke; Arrow Lane; pastures near Milverton, &c.

**M. erythropus**, *Fr.*

Woods. October.

Warwick, *Perceval*. Crackley Wood, Kenilworth, *Russell, Illustr.* *Ag. dispar*, With. (Batsch. 210), "In the Park at Packington," p. 273, is a variety of this, if correct.

**M. archyropus**, *Fr.*

Woods. September.

Crackley Wood, Kenilworth, *Russell, Illustr.*

**M. Vaillantii**, *Fr. Merulius androsaceus*, With.

On dead wood. October. Packington Park, amongst moss, *With.* 146.

I do not think that Withering's species was anything more than *M. androsaceus*, *Fr.*—W. B. G.

**M. foetidus**, *Fr. Merulius foetidus*, *Purt.*

"In my own garden (Alcester), growing between the furrows of the bark," *Purt.* ii. 620.

**M. ramealis**, *Fr.*

Hedges and woods. October. Burton Green Wood, Kenilworth, 1863, *Russell, Illustr.* Combe Woods, *Adams*. Coleshill Pool.

**M. alliaceus**, *Fr. Ag. alliaceus*, With.

Woods. Rare. September. "It has lately been found in woods about Packington," *With.* 272.

**M. rotula**, *Fr. Merulius collariatus*, *Purt.*

On woods and twigs.

"Shrubbery in my own garden (Alcester)," *Purt.* ii. 619. Warwick, *Perceval*. The Spring, Kenilworth, *Russell, Illustr.* Hopsford, *Adams*. Sutton Park; Shawberries Wood, Shustoke; Trickley Coppice; Packington Park; Bradnock's Marsh, &c.

**M. androsaceus**, *Fr. Merulius androsaceus*, *Purt.*

Plantation at Arrow, *Purt.* ii. 619. Combe Woods, *Adams*. Sutton Park; Marston Green; Maxstoke; Solihull; Olton; Coleshill Pool; Trickley Coppice, &c.

**M. epiphyllus**, *Fr. Merulius squamula*, *Purt.*

On leaves, &c. October. In the lane from Oversley to the mill; Arrow, &c., *Purt.* ii. 620.

**M. saccharinus**, *Fr.*

Woods. Rare. August. Crackley Wood, Kenilworth, *Russell, Illustr.* On dead leaves, &c., Kenilworth Castle, *Cooke, Illustr.* 1136.

### Genus XIII.—LENTINUS. *Fr.*

**L. tigrinus**, *Fr. Ag. tigrinus*, *With.* 155.

Packington Park, amongst moss, *With.*

**L. lepideus**, *Fr.*

Fine specimens of this species abundant in a cellar at Selly Oak, growing on the rafters of the floor above. Selly Oak is in Worcestershire; but what is believed to have been a monstrous form occurred in a wine cellar at Edgbaston, and in a manufactory in the heart of Birmingham.

**L. adhærens**, *Fr. Ag. adæsius*, *With.*, *Purt.*

September. Red Rock Plantation, Edgbaston, *With.* 158. Ragley Park, *Purt.* iii. 187.

**L. cochleatus**, *Fr. Ag. cornucopioides*, *Purt.*

September-October. Ragley Woods, *Mrs. Rufford in Purt.* iii. 190. Trickle Coppice; New Park, Middleton.

**L. flabelliformis**, *Fr. Ag. reniformis*, *Purt.*

June. Wixford, *Purt.* ii. 658.

### Genus XIV.—PANUS. *Fr.*

**P. conchatus**, *Fr. Ag. conchatus*, *With.*, *Purt.*

August to November. Edgbaston, on large trees, *With.* 295. On a lopped poplar at Studley, *Purt.* ii. 656. Solihull, *Hawkes!* Driffold Lane, Sutton.

**P. torulosus**, *Fr.*

On stumps. July to October.

On a stump, The Briars, Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams!* Gorsy land, Billesley, near Alcester; Packington Park; Driffold Lane, Sutton.

**P. stypticus**, *Fr. Ag. ficoides*, *With.*

On stumps. On an alder stump in Edgbaston Park, *With.* 298. Near Warwick, *Perceval.* Kenilworth, *Russell, Illustr.* Hopsford, near Brinklow, *Adams.* Driffold Lane, Sutton, abundant.

**Genus XV.—SCHIZOPHYLLUM, Fr.****S. commune, Fr.**

On logs. Very rare. On a felled oak, Shustoke, April, 1888. Certainly indigenous.

**Genus XVI.—LENZITES. Fr.****L. betulina, Fr.**

On felled timber. September to February.

Hopsford; Combe, *Adams*. Near Solihull Railway Station, 1871; Hartshill Hayes; Sutton; Sutton Park; Marston Green; Packington Park, &c.

**L. flaccida, Fr.**

On stumps. Rare. Near Warwick, March, 1872, *Perceval*.

**L. sepiaria, Fr.**

On fir wood. Rare. Combe Woods, *Adams*. Sutton, on larch.

## ORD. II.—POLYPOREI.

**Genus XVII.—BOLETUS. Dill.****B. luteus, Linn.**

Woods. Local. October. Sutton Park; Trickley Coppice; pine wood near Coleshill Pool; wood, Maxstoke.

**B. elegans, Schum.**

Borders of woods. Rare. October. Pine wood near Coleshill Pool; Trickley Coppice.

**B. flavus, With.**

Woods. Frequent. August to October.

Edgbaston Park, *With*. 314. Oversley Hill! Ragley Woods! *Purt*. ii. 665. Warwick, *Perceval*. Kenilworth! *Russell, Illustr.* Hopsford, *Adams*. Sutton Park; Trickley Coppice; Coleshill Pool and Heath; Ironstone Wood, Oldbury; Waverley Wood, Stoneleigh; Baddesley Clinton; Haywood; Old Park Wood, Arrow; Hampton; Earlswood; Bradnock's Marsh; Marston Green; Fen End; Umberslade; Corley; railway cutting near Henley-in-Arden; Solihull.

**B. granulatus, Linn. B. lactifluus, With.**

Woods. &c. August to October. Edgbaston Park, *With*. 314. Ashow, *Russell, Illustr.* Trickley Coppice; Olton Reservoir; Coleshill Heath.

**B. bovinus, Linn.**

Pine woods. September-October. Trickley Coppice; Middleton; pine plantation, Coleshill Heath.

**B. badius, Fr.**

Woods. Not uncommon. September-October.

Crackley Wood! *Russell, Illustr.* Sutton Park; Trickley Coppice; New Park; Coleshill Pool and Heath; Bradnock's Hayes; Corley; Edgbaston Park.

**B. sanguineus, With.**

Woods. Rare. October.

Edgbaston Park, *With.* 313. Oversley Hill, *Purt.* ii. 664. Crackley Wood, *Russell, Illustr.* The Fields, Ansty, *Adams.* Packington Park.

**B. piperatus, Bull.**

Woods. August-September. Combe Ridings, *Adams.* Trickley Coppice, Middleton; Sutton Park, Berkswell.

**B. variegatus, Sw.**

In pine woods. Rare. August. On the border of Coleshill Pool.

**B. striæpes, Secr.**

Woods. Local. October. Near Kenilworth! *Russell, Illustr.* Sutton Park; New Park.

**B. chrysenteron, Fr.**

Woods. Frequent. September-October.

Crackley Wood! *Russell, Illustr.* Warwick; The Spring, Kenilworth, *Perceval.* Combe Woods! *Adams.* Sutton Park; New Park; Trickley Coppice; Bradnock's Marsh; Coleshill Heath; Water Orton; Corley; Coughton Park, &c.

**B. subtomentosus, Linn. B. chrysenteron, With.**

Woods. Frequent. September-October.

Edgbaston, *With.* 313. Ragley Woods! Oversley Wood, *Purt.* iii. 241. Lodge Wood, Warwick, *Perceval.* Kenilworth, *Russell, Illustr.* Hopsford, *Adams.* Sutton Park; New Park; Trickley Coppice; pine plantation, Coleshill Heath and Pool; Crackley Wood, Kenilworth; Berkswell; Bradnock's Marsh; Packington Park; Edgbaston Park, &c.

**B. rubinus, Smith.**

Rare. Waysides. By Washpit, Brinklow Lane, near Combe, *Adams.*

**B. parasiticus, Bull.**

On *Scleroderma*. October. New Park, October, 1884 ! *Cooke*.

**B. variegator, B. et Br.**

Woods. Rare. Combe Woods, *Adams*. Bank of a field, border of Packington Park, August, 1886.

**B. calopus, Fr. B. olivaceus, var. 2, With.**

Packington Park, *With.* 312.

Withering quotes Schæff. t. 315, so that he may possibly have found this species.

**B. olivaceus, Schæff.**

Woods, &c. October. Church Lane, Edgbaston, *With.* 312.

**B. pachypus, Fr.**

Woods. Rare. August to October. Under trees, the Spring, Kenilworth, *Russell, Illustr.* Trickle Coppice, October, 1884, determined by *Dr. Cooke*.

**B. edulis, Bull. B. bovinus, With.**

Woods and waysides. August to November.

In Packington Park ! *With.* 311. Edgbaston Park, *With.* 306. Oversley Hill, *Purt.* ii. 664 ; Crackley Wood, *Russell, Illustr.* Combe Woods ! *Adams*. Kingswood, *Hawkes* ! Sutton Park ; near the Rectory, Sutton ; Coleshill Heath and Pool ; Haywood ; New Park ; Langley ; Berkswell ; Coughton Park.

Var. *elephantinus* (With.)

September. Red Rock Plantation, Edgbaston Park, *With.* 311.

This may, however, be *B. pachypus*.

**B. fragrans, Vitt.**

Woods. October. Combe Woods, *Adams*.

**B. impolitus, Fr.**

Woods. August to October. Sutton Park ; New Park ; Bradnock's Marsh.

**B. æstivalls, Fr.**

Woods. Rare. Combe Ridings, *Adams*. Fen End.

**B. Satanus, Lens.**

Waysides and woods. Rare. August-September. Packington Park ; Fen End.

**B. luridus**, *Schaff.* *B. rubeolarius*, *With.*, *Purt.*

Woods. October.

Edgbaston Park, *With.* 309. Oversley; Cold Comfort, *Purt.* ii. 662. The Common, Kenilworth, *Russell, Illustr.* Combe Woods, *Adams.* Kings wood, *Hawkes!* Sutton Park; Trickle Coppice; Langley; Berkswell; Packington Park; Hampton-in-Arden; Poor's Wood, Honiley.

Var. *erythropus*, *Pers.* A form similar to, if not identical with, this has occurred at Coleshill Pool and in Sutton Park :—Stem tall, cylindrical, dotted with red.

**B. loricinus**, *Berk.*

Woods. Rare. September-October. Warwick, *Perceval.* Hopsford, near Brinklow, *Adams.* Trickle Coppice.

**B. seaber**, *Fr.* *B. bovinus*, vars. 3, 4, *With.* *B. aurantiacus*, *Purt.*

Woods. Frequent. September-October.

Pastures, Edgbaston, *With.* 307. Oversley Wood! Ragley Woods! *Purt.* ii. 661. Warwick, *Perceval.* Kenilworth! *Russell, Illustr.* Ansty, *Adams.* Hams Hall, *Hawkes.* Sutton Park; Trickle Coppice; Hampton-in-Arden; wood near Bannersley Pool; Newlands Wood near Hatton; Windley Pool; Coleshill Pool and Heath; Edgbaston Park; The Spring, Kenilworth; Coughton, &c.

**B. felleus**, *Bull.*

Woods. Rare. October. Combe Ridings, *Adams.* Sutton Park.

**B. castaneus**, *Bull.*

Woods. Rare. September-October. Crackley Wood, *Russell, Illustr.* Lodge Wood, Warwick, *Perceval.*

#### Genus XVIII.—FISTULINA. *Bull.*

**F. hepatica**, *Fr.* *Boletus*, *Purt.*

In the crevices of living oaks. Local. July to October.

Dunnington; Alne Hills, *Purt.* ii. 670. Warwick, *Perceval.* Abbot's Oak near Kenilworth, *Russell, Illustr.* Combe Park, *Adams.* Solihull, *Hawkes!* Hartshill Hayes, *Bloxam.* Sutton Park; Marston Green; Packington Park.

#### Genus XIX.—POLYPORUS. *Fr.*

**P. leptcephalus**, *Fr.*

On tree trunks. October. Crackley Wood, *Russell, Illustr.*

**P. rufescens**, *Fr. Bol. biennis*, *Purt.*

On the ground. Rare. Near Alcester, *Rufford in Purt.* ii. 667. Burton Green Wood, *Russell, Illustr.* Solihull Park, *Wilkinson!* Ansty, *Adams.* Coleshill Heath; near Alveston Heath; Wappenbury; Grove Park.

**P. squamosus**, *Fr. Boletus squamosus*, *With.*

On trunks of trees, especially ash and elm. Frequent. July to March.

Edgbaston. *With.* 317. Warwick, *Perceval.* Ansty, *Adams.* Sutton; Middleton Heath; Plant's Brook Reservoir; Shustoke; Drayton Bushes; Stoneleigh Abbey; Solihull; Stechford, &c.

**P. varius**, *Fr. Boletus polyporus*, *With., Purt.*

On trunks. Facing the cottage by the Park Gate, Edgbaston. *With.* 305. On an old willow at Alcester Mill, *Purt.* ii. 667. Hopsford, *Adams.* Sutton; Shustoke; on old willows, Salford Priors.

**P. elegans**, *Fr. Boletus calceolus*, *With., Purt.*

On trunks. October.

Stump of an ash tree, Edgbaston, *With.* 318. On an old poplar, by the side of the Arrow, at Coughton Mill, *Purt.* ii. 666. Burton Green Wood, *Russell, Illustr.*

**Var. nummularius**, *Fr. Boletus nummularius*, *With., Purt.*

On a piece of rotten stick, by the tail of the pool, in Edgbaston Park, *With.* 310. On a willow stump near Oversley Bridge, in black-lands; in a plantation at Arrow, *Purt.* ii. 663.

**P. lucidus**, *Fr. Boletus lucidus*, *Purt.*

At Kenwarton, *Rufford in Purt.* ii. 665. At the foot of an aged oak, Oversley, *Purt.* iii. 440.

**P. intybaceus**, *Fr. Boletus frondosus*, *Purt.*

On a stump near Oversley Mill, *Purt.* ii. 666. Near Tachbrook, *Perceval.* Kenilworth, *Russell, List.* Sutton Park, at the foot of an oak.

**P. cristatus**, *Fr.*

Woods. Kenilworth, September, 1870, *Russell, Illustr.*

**P. giganteus**, *Fr. Daedalea imbricata*, *Purt.*

On trunks. Rare.

Wixford; Binton; Oversley, *Purt.* iii. 251 (*Eng. Flor.* v. 137). Lodge Wood, Warwick, *Perceval.* Dalehouse Lane, Kenilworth, *Russell, Illustr.* Brentford, near Rugby; Sutton; Edgbaston Park; Packington Park.

**P. sulfureus**, *Fr. Boletus*, With., Purt.

On trunks. In the cleft of a large cherry tree at Edgbaston, *With.* 325. In the hollow of a tree at Kingley; Wixford; Snitterfield, *Purt.* ii. 672. Oversley, *Purt.* iii. 446. On an oak in Combe Park, *Adams.* Sutton Park; Sutton; Four Oaks; Water Orton; near Shustoke.

**P. heteroclitus**, *Fr. Boletus*, Purt.

On the ground, on stumps partly covered with mould. Oversley; King's Coughton, *Purt.* iii. 245.

**P. salignus**, *Fr.*

On the foot of an apple tree, Kenilworth, *Russell, Illustr.*

**P. nidulans**, *Fr.*

On fallen trees and sticks. April to October.

Warwick Castle grounds, April, 1872, *Perceval.* Crackley Wood! *Dr. Cooke.* Combe Woods, *Adams.* New Park; Water Orton; Fen End.

**P. fumosus**, *Fr.*

On stumps. October to February. Warwick, *Perceval.* Penns, *Hawkes!* Driffold Lane, Sutton; Langley.

**P. adustus**, *Fr.*

On stumps. August to April. Near Warwick, *Perceval.* Hopsford, *Adams.* Driffold Lane; Sutton Park; New Park; Packington Park; Edgbaston Park, &c.

**P. adiposus**, *B. et Br.*

"Warwickshire, Bloxam," *Berkeley's Outlines*, 243.

**P. hispidus**, *Fr. Boletus velutinus*, With.

On trunks of trees. On trees at Edgbaston, October, 1790, *With.* 326. Near Warwick, July, 1872, *Perceval.* Kenilworth, *Russell, List.* Ansty, *Adams.* Fillongley; Sutton; Temple Balsall; Packington Park.

**P. cuticularis**, *Fr. Boletus*, With.

On a dead alder stump below the cascade, by the side of the brook, Edgbaston Park, *With.* 322.

**P. dryadeus**, *Fr. Boletus pseudo-igniarius*, Purt.

On stumps or the trunks of decayed living trees. Rare.

At the foot of an oak in Ragley Park, *Purt.* iii. 244 Warwick, *Perceval.* Stoneleigh Park, *Russell, Illustr.* Hams Hall; Stonebridge; Maxstoke Castle; Packington Park; Kingswood; Burton Green.

**P. betulinus, Fr.** (Not *Boletus betulinus*, With.)

On birch trees. Coleshill Heath ; near Arley ; [also on a dead but standing birch in the Church Fields, Harborne].

**P. applanatus, Fr.**

Trunks. Rare. Hopsford, *Adams*.

**P. fomentarius, Fr.** *Boletus*, Purt.

On tree trunks.

On a stump opposite Alcester Mill ; and on the trunk of an elm tree near to Hertford Bridge, *Purt.* ii. 674. Warwick, *Russell, Illustr.* Kingswood, *Hawkes!* Salford Priors ; Edgbaston Park. A peculiarly abnormal form of this occurred on some old timber in a manufactory yard in Birmingham.

**P. igniarius, Fr.**

On willow and plum trees, &c. On an old plum tree, Abbey End, Kenilworth, *Russell, Illustr.* Ansty, *Adams*. Barston ; Packington Park.

**P. conchatus, Fr.**

On tree trunks. Near Coleshill, 1882.

**P. ribis, Fr.**

At the base of currant bushes. Warwick, *Perceval*, September, 1872. Foot of a currant bush, Warwick, July, 1872, *Russell, Illustr.*

**P. ulmarius, Fr.** *Boletus*, Purt.

On elm trees. August-September. On an elm runnel at Arrow ; old elm stump, Wixford Lane ; Oversley, *Purt.* iii. 243. Near Warwick, *Perceval*.

**P. fraxineus, Fr.**

On old ash trees near Warwick, *Perceval*, March, 1872.

**P. annosus, Fr.**

On sticks and stumps. August to May.

Near Warwick, *Perceval*. Driffold Lane, Sutton ; Sutton Park, on larch ; Four Oaks ; Coleshill Pool, on larch ; Shirley, on *Rosa canina*.

**P. radiatus, Fr.**

Driffold Lane, Sutton, November, 1883, September, 1884 ; numerous specimens on fallen alders, above Blackroot Pool, Sutton Park, October, 1887.

**P. versicolor, Fr.**

On stumps, &c. Common everywhere.

Warwick, *Perceval*. Kenilworth, *Russell, Illustr.* Ansty, *Adams*. Sutton; Middleton; Coleshill; Oldbury, &c., &c. A pale substipitate form is not uncommon in shady places.

**P. Wynnei, B. et Br.**

Crackley Wood, *Russell, Illustr.*

**P. ferruginosus, Fr.**

On gate posts. Near Warwick, August, 1872, *Perceval*. Brinklow Lane, *Adams*.

**P. medulla-panis, Fr. Boletus, With., Purt.**

On decaying wood. Edgbaston, *With.* 319. Oversley, &c., *Purt.* ii. 669. Ragley Woods, *Purt.* iii. 444. Sutton (?) *Boletus obliquus*, Ragley, Oversley Wood, &c., *Purt.* iii. 247, may be the same, but all these references include the sub-similar species, such as *P. vulgaris*, *P. vaporarius*, &c.

**P. vitreus, Fr.**

On a cellar wall, Edgbaston, September, 1889, *J. W. Oliver!*

**P. obducens, Pers.**

On dead wood, Driffold Lane, Sutton, October, 1887. [The same species on an old hawthorn near Harborne, November, 1883.]

**P. vulgaris, Fr.**

On dead wood, &c. Warwick, *Perceval*. Ansty, *Adams!* Driffold Lane, Sutton.

**P. molluscus, Fr.**

On dead wood. Driffold Lane, Sutton; Coleshill Pool.

**P. sanguinolentus, Fr.**

On rotten wood. Driffold Lane, Sutton; Sutton Park.

**P. vaporarius, Fr.**

In woods, on fallen branches. Near Warwick, *Perceval*. Warwick! *Russell, List.* Driffold Lane; Sutton Park; Packington Park; Olton Reservoir; Solihull; Kingsbury, &c.

**P. Ptychogaster, Ludwig.**

The so-called conidial form of this (*Ptychogaster albus*, Corda) occurs almost every year on stumps of Scotch fir in Holly Hurst, Sutton Park.

Genus XX.—TRAMETES. *Fr.*

**T. Bulliardi**, *Fr.* *Boletus suaveolens*, *Purt.*

On decaying willows. Rare. Autumn. At Salford, between Mr. Penrice's and Cleve Mill, *Purt.* ii. 669.

From Purton's description his plant was probably *T. Bulliardi* and not *T. suaveolens*.

**T. suaveolens**, *Fr.*

On willow trunks. Bradnock's Marsh, February, 1884.

**T. gibbosa**, *Fr.* *Dædalea*, *Purt.*

Posts and trunks. June to December.

On the side of a footbridge at Great Alne, *Purt.* iii. 248. Bentley Park, *Bloxam*. Sutton Park; on fallen trees near Baginton Hall; Rotton Park Reservoir.

**T. serpens**, *Fr.* *Polyporus Stephensii*, S. et Sm., t. 45, f. 8-12.

On an old paling, near Windley Pool, Sutton.

Genus XXI.—DÆDALEA. *Pers.*

**D. quercina**, *Pers.* *Agaricus*, *Purt.*

On oak stumps.

Ragley Park; Coughton Bridge; Great Alne, *Purt.* ii. 661. On oaks, The Spring, Kenilworth, *Russell, Illustr.* Warwick, April, 1872, *Perceval*. Ansty, *Adams*. Castle Bromwich; Powell's Pool, Sutton Park, *Hawkes*!

**D. confragosa**, *Pers.*

On stump, Windley Pool, Sutton, November, 1884; exactly Bolton, t. 160.

**D. unicolor**, *Fr.*

On stumps, &c. Near Weddington, *Bloxam*.

Genus XXII.—MERULIUS. *Fr.*

**M. corium**, *Fr.*

On dead trunks. Near Warwick, February, 1872, *Perceval*. Kenilworth, *Russell, List*.

**M. lachrymans**, *Fr.* *Boletus*, *Purt.*

In cellars, &c. In the Rev. W. Bree's cellar at Allesley, October, 1820, *Purt.* iii. 245. Birmingham, *S. Wilkins*! Driffold Lane; Aston, &c.

Genus XXIII.—SOLENIA. *Hoffm.**S. anomala*, *Pers.*

On dead wood, October to May. Driffold Lane, Sutton ; Shustoke.

This species, which abounds in the former locality, is certainly not *S. ochracea*, Hoffm., if the two are really distinct. It forms extensive patches, sometimes 10 to 12 inches long, of closely packed fawn-coloured tubes, growing always on the sawn surfaces of planks or logs. A stipitate form, having a cylindrical stem  $1\frac{1}{2}$  to 2 mm. long, and apparently undistinguishable from *S. stipitata*, Fckl. (*Sym. Myc. Nachtr.* i. 290), occurred at Sutton, December, 1884.

## ORD. III.—HYDNEI.

Genus XXIV.—HYDNUM. *Linn.**H. repandum*, *Linn.*

On the ground, in woods. October.

Wetheley Wood ; Oversley Wood, *Purt.* ii. 677. Burton Green Wood, Kenilworth, *Russell, Illustr.* Combe Ridings, *Adams.* Baddesley Park, *Hawkes* ! Coleshill Pool, abundant ; Shawberries Wood, Shustoke ; Princethorpe Wood.

*H. scrobiculatum*, *Fr.*

Woods. Rare. Alveston Pastures, near Stratford-upon-Avon.

*H. auriscalpium*, *Linn.*

On fir cones, The Grounds, Hampton-in-Arden, January, 1883 ; Driffold Lane, Sutton, May, 1889.

*H. coralloides*, *Scop.*

On ash trees. Rare. At Oversley, in several places, generally on the ash, October, 1813, *Purt.* ii. 676.

*H. membranaceum*, *Bull.*

Coleshill, *Bree in Purt.* ii. 677.

*H. ferruginosum*, *Fr.*

On dead wood. In Driffold Lane, Sutton, November, 1883.

*H. udum*, *Fr.*

On rotting wood. In a very damp place, Driffold Lane, Sutton ; [also at Barnt Green Reservoir.]

*H. niveum*, *Pers.*

Dead wood, &c. Rare. Sutton ; Trickleby Coppice.

**H. farinaceum**, *Pers.*

On decayed wood. Rare. Sutton; Bradnock's Marsh.

**Genus XXV.—PHLEBIA.** *Fr.*

**P. merismoides**, *Fr.*

Old stumps and logs. Rare. Near Ansty, *Adams!* Sutton; Olton Reservoir.

Var. *albo-marginata*, Phillips.

Sutton, on bark. December-January. Differing from the type in the beautiful white byssoid border.

**Genus XXVI.—GRANDINIA.** *Fr.*

**G. granulosa**, *Fr.*

On fallen branches. October. Crackley Wood, Kenilworth! *Dr. Cooke.*

[*Kneiffia setigera*, *Fr.*

Grows on a living beech in the Lightwoods, Edgbaston, just beyond the Warwickshire border.]

ORDER IV.—THELEPHOREI.

**Genus XXVII.—CRATERELLUS.** *Fr.*

**C. lutescens**, *Fr.*

Woods. Rare. Bentley Wood, near Atherstone, *Bloxam.*

**C. cornucopioides**, *Fr.* *Pesiza*, *Purt.*

Woods. Rare. August to October.

Oversley Wood, *Purt.* ii. 690. Stoneleigh, *Perceval.* Crackley Wood, Kenilworth, *Russell, Illustr.* New Park; Shawberries Wood, Shustoke.

**Genus XXVIII.—THELEPHORA.** *Ehrh.*

**T. anthocephala**, *Fr.* *Clavaria*, *Purt.*

Plantation at Arrow, on a stump, *Purt.* ii. 697.

**T. terrestris**, *Ehrh.*

On the ground. Rare. Ladies' Hill Wood, Kenilworth, *Russell, Illustr.*

**T. laciniata, Pers.**

Castle Bromwich, *Hawkes!* Sutton Park, creeping over stones, sticks, bushes, &c. ; Lower Nut Hurst ; Windley Pool ; Olton Reservoir.

**T. mollissima, Pers.** *Auricularia caryophyllea*, Purt.

Near Allesley, *Bree in Purt.* iii. 261.

**T. cristata, Fr.** *Clavaria laciniata*, With., Purt.

Edgbaston Plantations, *With.* 359. Oversley Wood ; Oversley Lane, *Purt.* ii. 697.

Genus XXIX.—STEREUM. *Fr.***S. purpureum, Fr.** *Auricularia persistens*, Purt.

Stump of a tree near Oversley Mill, *Purt.* ii. 683. The Common, Kenilworth, *Russell, Illustr.* Hopsford, *Adams.* Driffold Lane, Sutton ; by Hartshill Hayes ; Crackley Wood ; Coleshill Heath and Pool ; Shustoke ; Water Orton ; Spennall ; Edgbaston Park.

**S. hirsutum, Fr.**

On stumps. Common.

Warwick, *Perceval.* The Spring, Kenilworth, *Russell, Illustr.* Ansty, *Adams.* Sutton ; New Park ; Shustoke ; Hartshill ; Marston Green ; Packington Park ; Coleshill Heath ; Edgbaston ; Trickle Coppice ; Crackley Wood ; Spennall, &c.

**S. spadiceum, Fr.**

On stumps and fallen branches. Sutton ; Sutton Park ; New Park, Middleton ; School Rough, Marston Green.

**S. sanguinolentum, Fr.**

Woods. Near Warwick, *Perceval.* On logs, Sutton Park ; Driffold Lane ; Edgbaston ; Trickle Coppice ; Coleshill Pool.

**S. rubiginosum, Fr.** *Auricularia ferruginea*, With.

Edgbaston, *With.* 335. Near Warwick, *Perceval.* Shustoke ; Driffold Lane, Sutton.

**S. tabacinum, Fr.** *Auricularia*, Purt.

Oversley Wood, *Purt.* iii. 260.

**S. rugosum, Fr.**

On stumps. Warwick, *Perceval.* Driffold Lane, Sutton ; Coleshill Heath ; Earlswood Reservoir.

Genus XXX.—AURICULARIA. *Bull.***A. mesenterica, Fr.**

On trunks of trees. August to March.

Warwick. *Perceval*. On felled timber, Red Lane, Kenilworth, *Russell, Illustr.*  
Hopsford, *Adams*. Kingsbury, *Hawkes!* On old stumps near Upper  
Eatington, April, 1883; Sutton Park; Shustoke, &c.

Genus XXXI.—CORTICIUM. *Fr.***C. evolvens, Fr.**

Warwick Castle timber yard, *Perceval*. Sutton Park; Edgbaston Park.

**C. giganteum, Fr.**

August. Sutton Park, on larch.

**C. læve, Fr.**

Sticks, &c. Common. Sutton Park; New Park; Shawberries Wood; Harts-  
hill Hayes, &c.

**C. sanguineum, Fr.**

Bentley Wood, *Bloxam*. On oak chips, Lady Wood, Four Oaks, October, 1888.

**C. cæruleum, Fr.**

On rails. Near Warwick, *Perceval*, March, 1872.

**C. quercinum, Fr.**

On trees. September-October. Sutton; Sutton Park; Solihull; Olton Reser-  
voir; Edgbaston Park.

**C. cinereum, Fr.**

On dead branches. Oscott; Sutton; Edgbaston Park; Packington Park;  
Olton Reservoir; Spennall.

**C. incarnatum, Fr.**

September. Sutton Park; Windley Pool; Driffold Lane; Middleton; Hamp-  
ton-in-Arden.

**C. nudum, Fr.**

On branches, even of living trees. Warwick, *Perceval*. On lilac, Sutton  
Shustoke.

**C. corrugatum, Fr.**

On fallen twigs. Driffold Lane, Sutton, January-February, 1883.

**C. comedens, Fr.**

On dead branches. August to October. Solihull; Edgbaston Park; Packington Park.

**C. puteanum, Fr.**

Warwick, *Perceval*. In a well, Edgbaston, *C. B. Caswell!* Fillongley, *Adams*.

**C. aridum, Fr.**

On damp wood. Driffold Lane, Sutton; Four Oaks.

**C. terrestre, Mass.**

Amongst decaying leaves. School Rough, Marston Green.

**C. sambuci, Fr.**

On elder. December-January. Driffold Lane, Sutton.

**Genus XXXII.—CYPHELLA. Fr.****C. capula, Fr.**

On dead herbaceous stems. May to October. Driffold Lane, Sutton; Solihull; Dunchurch. A yellowish form is occasionally met with.

**C. Curreyi, B. et Br.**

On bark, Erdington, June, 1883.

**C. faginea, Lib.**

On a dead stump, Bradnock's Marsh, July, 1884.

**C. villosa, Pers.**

On a dead stem of *Rumex*, Edgbaston, August, 1883.

Comparative figures of the three last species will be found in Bucknall's "Fungi of the Bristol District," part v., pl. 2., figs. 1-3. They are probably all immature stages of *Peziza*.

**ORD. V. CLAVARIEI.****Genus XXXIII.—CLAVARIA. Linn.****C. fastigiata, Linn..**

Pastures. September-October. Coleshill Heath! *Bree*. Between Oversley Turnpike and Haslor, *Purt*. iii. 269. Shilton Fields, *Adams*. Middleton Heath; Langley.

**C. coralloides**, Linn. *C. muscoides*, Purt.

September-October. Oversley Wood, *Purt.* ii. 698. Langley, 1883.

**C. cinerea**, Bull.

In woods. August to October. Combe Woods, *Adams*. New Park, Middleton; Trickley Coppice; Windley Pool, Sutton; Solihull

**C. cristata**, Pers.

Woods. August to October. Warwick, *Perceval*. Coleshill Pool; Trickley Coppice; Bradnock's Marsh; Shirley Street; Olton Reservoir; Edgbaston Park.

**C. rugosa**, Bull. *C. coralloides*, var. 2, *elegans*, Purt.

October. On a hedgebank at Salford, and at Dunnington; in a sandy soil, *Purt.* iii. 269. Combe Woods, *Adams*. Trickley Coppice.

**C. Kunzei**, Fr.

Woods. Rare. August. Lodge Wood, Warwick, *Perceval*.

**C. fusiformis**, Sow.

Woods. October. On an elm at Sambourn, *Purt.* ii. 698. Kenilworth, *Russell*, *Illustr.* Hopsford, *Adams*.

**C. inæqualis**, Fl. Dan.

October. Combe Ridings, *Adams*. Sutton Park. The var. *aurantiaca*, Pers, in Sutton Park and on Coleshill Heath.

**C. vermicularis**, Scop.

Warwick, September, 1872, *Perceval*. Kenilworth, *Russell*, *List*. Kingswood, October, *Hawkes*! Ansty, *Adams*.

**C. fragilis**, Holmsk. *C. cylindrica*, Purt.

On Alne Hill, *Purt.* ii. 699. Hopsford, *Adams*. Coleshill Heath; New Park, Middleton (var. *flava*, Bull.); Kingswood.

**C. pistillaris**, Linn. *C. Herculanea*, Purt.

Woods. October-November. In shady woods. Very rare. Wetheley Wood, *Purt.* iii. 270.

#### Genus XXXIV.—CALOCERA. Fr.

**C. viscosa**, Fr.

On fir stumps. August to October. Coleshill Pool; Sutton Park.

**C. cornea, Fr.**

On squared rotting timber. July to October. Hopsford, *Adams*. Driffold Lane, Sutton; Edgbaston Park; Rotton Park Reservoir; Trickle Coppe; Coleshill Pool.

**Genus XXXV.—TYPHULA. Pers.****T. gyrans, Fr. Clavaria, Purt.**

October. In the lane leading from Oversley to the Mill, *Purt.* ii 695.

**T. phacorrhiza, Fr. Clavaria, Purt.**

Allesley, *Bree in Purt.* iii. 268.

[*T. Grevillei* occurs in Worcestershire, near Harborne, and not far from Warwickshire.]

**Genus XXXVI.—PISTILLARIA. Fr.****P. micans, Fr.**

On dead thistles. June. Solihull; somewhat doubtful.

**P. quisquiliaris, Fr.**

On fern stems. October. Trickle Coppe; Lady Wood, Four Oaks.

**P. rosella, Fr.**

On nettle stems, September, 1883, Driffold Lane, Sutton (the first British locality); on rotting stems of Heracleum, August, 1884, Bradnock's Marsh.

**ORD. VI.—TREMELLINEI.****Genus XXXVII.—TREMELLA. Dill. Fr.****T. foliacea, Pers.**

On stumps. Sutton Park, September, 1881; December, 1882.

**T. mesenterica, Retz.**

On sticks in woods. Warwick, *Perceval*. Hopsford, *Adams*. Driffold Lane, Sutton; Crackley Wood, Kenilworth.

**T. albida, Huds.**

On dead branches. October-November. Warwick, *Perceval*. Upper Nut Hurst, Sutton Park; Wylde Green.

**T. moriformis**, *Eng. Bot.*

On sticks. Rare. At Gorcot Hall, on pea sticks, *Purt.* ii. 616.

**T. tubercularia**, *Berk.*

On fallen branches. October. Driffold Lane, Sutton; Olton.

**T. torta**, *Berk.*

On dead oak. August to October. Crackley Wood; Sperrall.

**Genus XXXVIII.—EXIDIA.** *Fr.*

**E. reeisa**, *Fr. Tremella boletiformis*, *Purt.*

Rare. December. On the decayed branches of a willow close to the water at Oversley, and also near to Great Alne Mill, *Purt.* ii. 615.

**E. glandulosa**, *Fr. Witches' Butter.*

On dead oak branches. October. Combe, *Adams.* New Park, Middleton; on fallen trees near Solihull; Kenilworth.

**Genus XXXIX.—HIRNEOLA.** *Fr.*

**H. Auricula-Judæ**, *Berk. Jew's Ear.*

On elder. October to June. Warwick, *Perceval.* Hopsford, *Adams.* Driffold Lane, Sutton; Packington Park.

**Genus XL.—DACRYMYCES.** *Nees.*

**D. deliquescens**, *Dub.*

On fallen branches. Driffold Lane, Sutton; Coleshill Heath.

**D. stillatus**, *Nees.*

On rotting wood. Common. Warwick, *Perceval.* Birmingham; Sutton; Coleshill; Bradnock's Marsh, &c.

**Genus XLI.—DITIOLA.** *Fr.*

**D. radicata**, *Fr.*

Very rare. On deal planks, Driffold Lane, Sutton, February, 1883. Exactly like fig. 101 of Cooke's Handbook.

## FAM. II.—GASTROMYCETES.

## ORD. VII.—PHALLOIDEI.

PHALLUS. *Linn.*

**P. impudicus**, *Linn.* *P. fetidus*, Sow., *Purt.* *Stinkhorn.*

Woods. Local. July to October.

Ragley Woods, *Purt.* iii. 470. Hopsford; Combe, *Adams.* Sutton Park;  
Trickley Coppice and New Park, Middleton; Coleshill Pool; Witton;  
Ward End Hall; Edgbaston Park; Hams Hall.

## ORD. VIII.—TRICHOCASTRES.

GEASTER. *Mich.*

**G. fornicatus**, *Fr.* *Lycoperdon fornicatum*, Huds., *With.*

Meadows and pastures. Very rare. October to January. About Birches  
Green, near Birmingham, *Mrs. Corrie in With.* 368.

**G. limbatus**, *Fr.* *Lycoperdon stellatum*, Linn., *With.*, *Purt.*

Hedgebanks and pastures. Rare. September to December.

Hedgebank by the side of the great road from Coventry to Birmingham, near  
Stonebridge; in Edgbaston Park, *With.* 367. Rushford; Oversley,  
*Purt.* ii. 702. Allesley, *Bree in Purt.* iii. 480.

**G. fimbriatus**, *Fr.*

Fields. Rare. December. Station Fields, Kenilworth, 1871, *Russell, List.*  
In a garden, Boldmere, near Sutton, 1888.

**G. rufescens**, *Fr.*

Pastures. Rare. October. Pasture on the farm of the Earl of Warwick  
(Heathcote Farm), 1872, *Perceval.*

BOVISTA. *Dill.*

**B. nigrescens**, *Pers.*

Pastures. Not common. In a field near Shustoke, 1888.

**B. plumbea**, *Pers.*

Pastures. Local. Fields near Maxstoke Priory.

**LYCOPERDON.** *Tourn.***Lycoperdon Bovista**, *Linn.* *L. giganteum*, *Batsch.*

Pastures and gardens. Not common. August to October.

Ansty, *Adams.* Olton Reservoir! *Parsons.* Edgbaston! *Hillhouse.* Sutton; Wixford; Castle Bromwich.**L. cælatum**, *Bull.* Edible.Pastures. Not common. July to October. Corley, *Adams.* Packington Park; Coleshill Heath; Edgbaston Park. This species is as delicious, when fried in slices, as *L. giganteum*.**L. saccatum**, *Vahl.*Borders of woods. Rare. October. Knowle, 1886, *Hawkes!***L. gemmatum**, *Batsch.*

Meadows and waysides. Common. September to November.

Kenilworth, *Russell, Illustr.* Ansty, *Adams.* Alveston Pastures; lane by Crackley Wood; Haywood; pastures near Maxstoke Priory; Coleshill Heath; Olton Reservoir, &c.**L. perlatum**, *Pers.*

Roadsides by woods. Common. September-October. Coleshill Pool; New Park, Middleton; Corley; Forge Mills, &amp;c.

**L. pyriforme**, *Schæff.*

On decaying logs or on the ground near them. Frequent. October to February.

Abbey Fields, Kenilworth, *Russell, Illustr.* Warwick, *Perceval.* Ansty; Hopsford, *Adams.* The Spring, Kenilworth; Olton; Middleton; Maxstoke; Shustoke; Sutton; Edgbaston Park, &c.**L. Cookel**, *Mass.*

On the ground. Rare. August-September.

Edgbaston Park, 1886; a large number growing together, distinguished from *L. pusillum* by the well-developed cellular sterile base.**SCLERODERMA.** *Pers.***S. vulgare**, *Fr.*

Woods. Frequent. Autumn.

Warwick, *Perceval.* Hopsford; Combe, *Adams.* Sutton Park; Kingsbury Wood; Middleton; Hartshill Hayes; Oldbury Woods; Waste Wood, Tile Hill; Haywood; Cut-throat Wood, Solihull; Alveston Pastures; Crackley Wood; Coleshill Pool; Olton, &c.Var. *spadiceum*, *Pers.* *Tuber solidum*, *With.* Edgbaston, under an oak tree by the pool, *With.* 365.

**S. Bovista, Fr.**

On the ground. Rare. November. Kenilworth, *Russell, Illustr.* Warwick, *Russell, List.* (Is not this an error?)

**S. verrucosum, Pers. *Lycoperdon*, With. *L. defossum*, Purt.**

Hedgebanks. Rare. August to October. Edgbaston, by the little pool dam, *With.* 372. Oversley; Kinwarton, *Purt.* ii. 761. [A few specimens at Sparkhill, just outside the county, October, 1882].

**S. Geaster, Fr.**

On the ground, in woods. Rare. November. On marly soils in New Park, Middleton, November, 1882.

ORD. IX. NIDULARIACEI.

**CYATHUS. Hall.**

**C. striatus, Hoffm. *Nidularia striata*, Purt.**

On sticks and stumps. Rare. July to September.

On a hedgebank in Oversley Lane; in a wood near Cold Comfort, *Purt.* ii. 693. Banks, Allesley, *Bree in Purt.* iii. 470. Hopsford, *Adams.* On a beech stump in Packington Park, July, 1886.

**C. vernicosus, DC. *Nidularia campanulata*, With., Purt.**

Woods, gardens, and fields. Rare. September-October.

In the garden of the workhouse at Erdington, *With.* 350. Kinwarton, *Purt.* ii. 693. In a garden at Sutton, and in Mr. Levick's garden at Aston.

"Call'd in *Worcestershire* Cornbells, where it grows plentifully," *Ray, Syn.* p. 20.

**CRUCIBULUM. Tul.**

**C. vulgare, Tul. *Nidularia lavis*, Purt.**

On ferns, sticks, &c. Rare. Autumn and winter.

Near Coleshill, on a decayed fern stalk, *Bree in Purt.* iii. 267. Warwick, *Perceval.* Combe Ridings, *Adams.* Near Erdington, August, 1888.

**SPHÆROBOLUS. Tode.**

**S. stellatus, Tode. *Lycoperdon carpobolus*, With.**

On rotten sticks, &c. Rather rare. June to November.

Packington, *With.* 271. Driffold Lane, Sutton; New Park, Middleton; Bradnock's Hayes; Edgbaston Park; Olton Reservoir, &c.

## SUMMARY.

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Mr. Hewett C. Watson, in his valuable work, "A Compendium of the Cybele Britannica," has for convenience grouped our British Plants into certain leading *Types of Distribution*. These groups are primarily six, to which two others are subordinate or supplementary. They are briefly stated thus.—

1. **British Type.**—Species widely spread throughout South, Middle, and North Britain.
2. **English Type.**—Species chiefly seen in South or South-Middle Britain.
3. **Scottish Type.**—Species chiefly seen in North or North-Middle Britain.
- Intermediate Type.**—Species chiefly seen in Mid Britain.
4. **Highland Type.**—Species chiefly seen about mountains.
5. **Germanic Type.**—Species chiefly seen in East England.
6. **Atlantic Type.**—Species chiefly seen in West England.

**Local Species** restricted to single or few provinces.

*Compend. Cyb. Brit.* page 23.

The following is an analysis of the Warwickshire Flora, based on the above, with a full analysis of the British Flora, given for comparison :—

Types.				Warwickshire.			Great Britain.	
<b>British</b>	..	..	..	501	..	..	532	
<b>English</b>	..	..	..	285	..	..	409	
<b>Scottish</b>	..	..	..	18	..	..	81	
<b>Intermediate</b>	..	..	..	7	..	..	37	
<b>Highland</b>	..	..	..	1	..	..	120	
<b>Germanic</b>	..	..	..	31	..	..	127	
<b>Atlantic</b>	..	..	..	8	..	..	70	
<b>Local..</b>	..	..	..	1	..	..	49	
				852				1425

In the same work Mr. Watson gives an interesting chapter on the Nativity of Species, and by a series of terms, Native, Denizen, Colonist, &c., divides all our British plants into their various classes of citizenship, "from the truly wild and

prehistorically established species, down to occasional stragglers from cultivation, or the products of seeds accidentally imported with merchandise, ship ballast, &c." These terms he thus explains :—

**Native.**—Apparently an aboriginal British species, there being no reason for supposing it to have been introduced by man's agency, such as the Hazel, Daisy, or Ling.

**Denizen.**—At present maintaining its habitat as if a native species, but liable to some suspicion of having been originally introduced by human agency. Such as Monkshood, Soapwort, Greater Celandine.

**Colonist.**—A weed of cultivated land, by roadsides or about houses, and seldom found except in places where the ground has been adapted for its continuance by the operations of man, often of most uncertain occurrence. Such as the field Crowfoot, the Poppy, Corn Cockle, &c.

**Aliens.**—Species certainly or probably of foreign origin, though several placed in this category are well established amid the indigenous flora of this island. Such as the Yellow Fumitory, Horse Radish, the Sycamore, a tree much planted, and *Geranium Pheum*.

**Casuals.**—Species which are often merely chance stragglers from cultivation, or sown with imported agricultural seeds, or introduced by the agency of the skins brought for tanning from other lands, many plants being thus introduced in the Kenilworth district. Such as the Opium Poppy, *Saponaria Vaccaria*, *Coronilla varia*, &c.

**Ambiguities.**—Used by myself to express a feeling of uncertainty as to what plant the recorders may have really meant, or to imply doubt as to correctness of nomenclature.

Besides these are **Varieties**, plants whose position it is most difficult to explain, few of our leading botanists being really at one in this matter.

The Warwickshire Flora may be thus arranged under the various classes above given :—

<b>Native</b> .. .. .	817
<b>Denizen</b> .. .. .	42
<b>Colonist</b> .. .. .	46
<b>Alien</b> .. .. .	42
<b>Casuals</b> .. .. .	108
<b>Ambiguities</b> .. .. .	18
<b>Varieties</b> .. .. .	236
	<hr/>
	1309

<b>Mosses</b> —Species .. .. .	236
Varieties .. .. .	39
<b>Hepatics</b> —Species .. .. .	44
Varieties .. .. .	1
<b>Lichens</b> .. .. .	101
<b>Fungi</b> —Species and Varieties .. .. .	727

In Topographical Botany, pp. 665-710, Mr. H. C. Watson gives a comital census of British plants, showing in a tabular form the comparative distribution of the British species. Adopting this as a standard, I find that—

- Of the 239 species found in 90 to 103 counties Warwickshire has 239.
  - Of the 129 species found in 80 to 90 counties Warwickshire has 129.
  - Of the 124 species found in 70 to 80 counties Warwickshire has 119.
  - Of the 113 species found in 60 to 70 counties Warwickshire has 102.
  - Of the 107 species found in 50 to 60 counties Warwickshire has 93.
  - Of the 104 species found in 40 to 50 counties Warwickshire has 80.
  - Of the 84 species found in 30 to 40 counties Warwickshire has 44.
  - Of the 109 species found in 20 to 30 counties Warwickshire has 49.
  - Of the 11 species found in 20 counties Warwickshire has only 4. These are *Cenante silaifolia*, *Linaria repens*, *Stachys ambigua*, *Fritillaria Meleagris*.
  - Of the 11 species found in 19 counties none occur in Warwickshire.
  - Of the 10 species found in 18 counties Warwickshire has only 3; *Polygala vulgaris*, *Tilia parvifolia*, *Orchis incarnata*.
  - Of the 16 species found in 17 counties Warwickshire has 5; *Medicago denticulata*, *Epilobium tetragonum*, *Galium elongatum*, *G. erectum*, *Hieracium prenanthoides*.
  - Of the 17 species found in 16 counties Warwickshire has 4; *Fumaria pallidiflora*, *F. muralis*, *Schrophularia Ehrhartii*, *Cynoglossum sylvaticum*.
  - Of the 10 species found in 15 counties Warwickshire has 1; *Viola tricolor*.
  - Of the 20 species found in 14 counties Warwickshire has 7; *Polygala oxyptera*, *Elatine hexandra*, *Silene nutans*, *Trifolium glomeratum*, *Vicia gracilis*, *Polygonum nodosum*, *Orchis maialis*.
  - Of the 23 species found in 13 counties Warwickshire has 4; *Crepis biennis*, *Taraxacum erythrospermum*, *Potamogeton zosteræfolius*, *Carex Boenninghausenia*?
  - Of the 22 species found in 12 counties Warwickshire has 2; *Helleborus foetidus*, *Betula verrucosa*.
  - Of the 13 species found in 10 counties Warwickshire has 2; *Erodium moschatum*, *Carex elongata*.
  - Of the 18 species found in 9 counties none occur in Warwickshire.
  - Of the 24 species found in 8 counties Warwickshire has 2; *Crocus nudiflorus*, *Potamogeton compressus*.
  - Of the 32 species found in 7 counties Warwickshire has only 3; *Mentha alopecuroides*, *Salix laurina*, *Cyperus longus*.
  - Of the 27 species found in 6 counties Warwickshire has only 1; *Rosa pulverulenta*.
  - Of the 30 species found in 5 counties none are native, but 5 have been recorded from Warwickshire; *Aconitum Napellus*, *Actea spicata*, *Polemonium caruleum*, *Daphne Mezereon*, *Leucjum æstivum*.
  - Of the 31 species recorded for 4 counties Warwickshire has none.
  - Of the 37 species recorded for 3 counties Warwickshire has none.
  - Of the 50 species recorded for 2 counties Warwickshire has 2; *Salvia pratensis*, *Tilia grandiflora*.
  - Of the 58 species recorded for 1 county Warwickshire has only 1; *Rosa sepium*.
- The plants printed in italics are aliens in Warwickshire.

# SUMMARY OF GEOGRAPHICAL DISTRIBUTION OF SPECIES AND VARIETIES IN WARWICKSHIRE,

WITH THE WATSONIAN TYPES OF THE WARWICKSHIRE SPECIES; AND COMPARATIVE OCCURRENCE IN THE COUNTIES OF WARWICK, LEICESTER, NORTHAMPTON, AND OXFORD.

The initials W, L, N. and O indicate the counties above named, whilst the figures 1, 2, 3, &c., indicate the districts in which each plant is found.

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Clematis Vitalba</i> .. ..	Eng. ..	1	2		4		6	7	8	9	10
W	L	N	O	<i>Thalictrum flavum</i> .. ..	Eng. ..	1	2	3	4	5					
				" <i>d. Morisonii</i> .. ..											
				<i>Anemone Pulsatilla</i> .. ..											
W	L	N	O	" <i>nemorosa</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Adonis autumnalis</i> .. ..									8	9	
W	L	N	O	<i>Myosurus minimus</i> .. ..	Germ...		2	3	4	5	6				
W	L	N	O	<i>Ranunculus circinatus</i> .. ..	Eng. ..	1	2	3	4	5	6		8	9	10
W	L	N	O	" <i>fluitans</i> .. ..		1	2	3	4	5	6		8	9	
W	L	N	O	" <i>pseudo-fluitans</i> .. ..			2	3	4	5	6	7	8		
W	L	N	O	" <i>d. submersus</i> .. ..		1	2	4	5	6	7	8			
W	L	N	O	" <i>trichophyllus</i> .. ..	Eng. ..		2	4	5	6	7	8			10
W	L	N	O	" <i>Drouetii</i> .. ..		1	2	4	5	6	7	8	9		
W	L	N	O	" <i>d. Godronii</i> .. ..			2	3	4	5	6	7	8		
W	L	N	O	" <i>heterophyllus</i> .. ..		1	2	3	4	5	6	7			
W	L	N	O	" <i>d. radians</i> .. ..		1	2	3	4	5	6			9	10
W	L	N	O	" <i>peltatus</i> .. ..	Brit. ..	1	2	3	4	5	6	7			
W	L	N	O	" <i>d. truncatus</i> .. ..		1	2	4	5	6	7	8	9	10	
W	L	N	O	" <i>c. floribundus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>forma rhipiphyllus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. penicillatus</i> .. ..				3	4	5	6	7	8	9	10
W	L	N	O	" <i>confusus</i> .. ..											
W	L	N	O	" <i>Lenormandi</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>hederaceus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. omiophyllus</i> .. ..			2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sceleratus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Flammula</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Lingua</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>auricomus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>acris</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>repens</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>bulbosus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sardous</i> .. ..	Eng. ..										
W	L	N	O	" <i>parviflorus</i> .. ..	Eng. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvensis</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Ficaria</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. incumbens</i> .. ..											
W	L	N	O	<i>Caltha palustris</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. Guerangerii</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Helleborus viridis</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>foetidus</i> .. ..	Eng. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Eranthis hyemalis</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Aquilegia vulgaris</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Delphinium Ajacis</i> .. ..	Germ...										
W	L	N	O	<i>Aconitum Napellus</i> .. ..	Atlan...										
W	L	N	O	<i>Berberis vulgaris</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Nuphar luteum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Nymphaea alba</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Papaver somniferum</i> .. ..			2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Rhoas</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. strigosum</i> .. ..											
W	L	N	O	" <i>dubium</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. Lecoqii</i> .. ..											
W	L	N	O	" <i>Argemone</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>hybridum</i> .. ..											

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10	
W				<i>Chelidonium majus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8		10	
W	L			<i>Corydalis lutea</i> .. .. .		1	2		4		6	7	8	9		
W		N		" <i>claviculata</i> .. .. .	Brit. ..											
W				<i>Fumaria pallidiflora</i> .. .. .	Brit. ..	1										
W				" <i>δ. Boræi</i> .. .. .						5	6					
W				" <i>confusa</i> .. .. .			2		4							
W				" <i>muralis</i> .. .. .		1			4							
W	L			" <i>densiflora</i> .. .. .												
W	L	N		" <i>officinalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>Vaillantii</i> .. .. .												
W				" <i>parviflora</i> .. .. .												
W	L			* <i>Cheiranthus Cheiri</i> .. .. .						4	6	7	8			
W	L	N		<i>Nasturtium officinale</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>δ. siifolium</i> .. .. .			2		4				8			
W	L			" <i>*sylvestre</i> .. .. .	Eng. ..	1										
W	L			" <i>palustre</i> .. .. .	Brit. ..	1	2	3	4	5	6		8	9		
W	L	N		" <i>amphibium</i> .. .. .	Eng. ..	1	2	3	4	5	6		8	9		
W	L	N		<i>Barbarea vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>δ. divaricata</i> .. .. .				3	4			7	8	9	10	
W				" <i>arcuata</i> .. .. .					4	5		7	8	9		
W		N		" <i>*stricta</i> .. .. .						4	6					
W				" <i>*intermedia</i> .. .. .			2				6			9		
W	L			" <i>præcox</i> .. .. .		1				4	5	6				
W	L	N		<i>Arabis sagittata</i> .. .. .	Brit. ..							6	7			
W				" <i>Turrillia</i> .. .. .												
W	L			" <i>perfoliata</i> .. .. .	Eng. ..	1	2		4		6					
W	L			<i>Cardamine amara</i> .. .. .	Brit. ..	1	2	3	4	5	6		8	9		
W	L	N		" <i>pratensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>hirsuta</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>flexuosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>impatiens</i> .. .. .	Inter. ..			3	4							
W				<i>Alyssum incanum</i> .. .. .		1										
W				" <i>calycinum</i> .. .. .						4						
W	L	N		<i>Erophila vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>præcox</i> .. .. .			2			5	6					
W	L			<i>Cochlearia officinalis</i> .. .. .												
W	L			" <i>Armoracia</i> .. .. .		1	2	3	4	5		7		9		
W	L			<i>Hesperis matronalis</i> .. .. .			2		4	5						
W	L	N		<i>Sisymbrium Thalianum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>officinale</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>Sophia</i> .. .. .	Brit. ..		2				6			9		
W				" <i>Irio</i> .. .. .												
W	L	N		" <i>Alliaria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L			<i>Erysimum cheiranthoides</i> .. .. .	Eng. ..	1	2		4		6					
W	L			<i>Camelina sativa</i> .. .. .						6						
W	L			<i>Brassica Napus</i> .. .. .		1		3	4		6	7	8	9	10	
W				" <i>Rutabaga</i> .. .. .		1			4			7				
W				" <i>Rapa</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10	
W				" <i>δ. sylvestris</i> .. .. .						4	5					
W	L	N		" <i>nigra</i> .. .. .	Eng. ..			3	4	5	6	7	8	9	10	
W	L	N		" <i>Sinapis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>alba</i> .. .. .	Eng. ..			3	4		6	7	8	9		
W				<i>Diploxaxis tenuifolia</i> .. .. .	Eng. ..								8			
W				" <i>muralis</i> .. .. .	Eng. ..					4	5					
W				" <i>δ. Babingtonii</i> .. .. .						4	5					
W	L	N		<i>Capsella Bursa-pastoris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		<i>Senebiera Coronopus</i> .. .. .	Eng. ..		2		4	5	6	7	8	9	10	
W	L	N		<i>Lepidium ruderals</i> .. .. .	Eng. ..						6					
W				" <i>sativum</i> .. .. .												
W	L	N		" <i>campestre</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10	
W	L	N		" <i>Smithii</i> .. .. .	Brit. ..	1	2	3	4							
W				" <i>*Draba</i> .. .. .		1			4							
W	L	N		<i>Thlaspi arvense</i> .. .. .	Brit. ..	1	2			4	5		7	8	9	10
W				" <i>perfoliata</i> .. .. .												
W				<i>Iberis amara</i> .. .. .						5	6		8			
W	L	N		<i>Teesdalia nudicaulis</i> .. .. .	Brit. ..	1	2		4							
W				<i>Isatis tinctoria</i> .. .. .					4							
W	L	N		<i>Raphanus Raphanistrum</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9		
W				<i>Reseda alba</i> .. .. .						4	6					
W	L	N		" <i>lutea</i> .. .. .	Eng. ..					4						
W	L	N		" <i>Luteola</i> .. .. .	Brit. ..	1	2		4		6	7		9	10	
W	L	N		<i>Helianthemum Chamæcistus</i> .. .. .	Brit. ..					4	5		8	9	10	

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L		O	<i>Viola palustris</i> .. .. .	Brit. ..	1	2	3			6		8		
W	L	N	O	" <i>odorata</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. alba</i> .. .. .		1			4		6	7	8	9	
W	L	N	O	" <i>c. permixta</i> .. .. .					4						
W	L	N	O	" <i>hirta</i> .. .. .	Eng. ..		2		4	5	6	7	8	9	10
W	L	N	O	" <i>δ. alba</i> .. .. .					4						
W	L	N	O	" <i>sylvatica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Reichenbachiana</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>canina</i> .. .. .	Brit. ..	1	2	3	4		6	7	8		
W	L	N	O	" <i>lactea</i> .. .. .							6				
W	L	N	O	" <i>tricolor</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. arvense</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. mentita</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Polygala vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>oxyptera</i> .. .. .								7			
W	L	N	O	" <i>serpyllacea</i> .. .. .	Brit. ..	1	2				6	7	8	9	
W	L	N	O	" <i>calcareæ</i> .. .. .											
W	L	N	O	<i>Dianthus Armeria</i> .. .. .	Eng. ..					4		6	7	9	
W	L	N	O	" <i>deltoides</i> .. .. .		1				4					
W	L	N	O	<i>Saponaria Vaccaria</i> .. .. .		1				4	5				
W	L	N	O	" <i>*officinalis</i> .. .. .		1				4				9	
W	L	N	O	" <i>δ. hybrida</i> .. .. .							6				
W	L	N	O	<i>Silene Cucubalis</i> .. .. .	Brit. ..	1	2	3	4	5		7			10
W	L	N	O	" <i>δ. puberula</i> .. .. .		1	2			4					10
W	L	N	O	" <i>anglica</i> .. .. .	Eng. ..	1	2			4					
W	L	N	O	" <i>nuttans</i> .. .. .		1									
W	L	N	O	" <i>annulata</i> .. .. .		1									
W	L	N	O	" <i>noctiflora</i> .. .. .	Eng. ..										
W	L	N	O	<i>Lychnis alba</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>diurna</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Flos-cuculi</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Githago segetum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Cerastium quaternellum</i> .. .. .	Eng. ..	1	2	3			6				
W	L	N	O	" <i>semidecandrum</i> .. .. .	Brit. ..		2						8		
W	L	N	O	" <i>glomeratum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. apetalum</i> .. .. .											
W	L	N	O	" <i>triviale</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvense</i> .. .. .	Brit. ..		2				6				
W	L	N	O	<i>Stellaria aquatica</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nemorum</i> .. .. .								7			
W	L	N	O	" <i>media</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. neglecta</i> .. .. .		1	2	3	4	5			8		10
W	L	N	O	" <i>c. Borœana</i> .. .. .											
W	L	N	O	" <i>umbrosa</i> .. .. .			2				6	7	8		
W	L	N	O	" <i>Holostea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>palustris</i> .. .. .	Eng. ..				4				8		
W	L	N	O	" <i>graminea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>uliginosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Arenaria tenuifolia</i> .. .. .	Eng. ..				3						
W	L	N	O	" <i>trinervia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>serpyllifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. leptoclados</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Sagina apetala</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>ciliata</i> .. .. .	Eng. ..	1	2								
W	L	N	O	" <i>procumbens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nodosa</i> .. .. .	Brit. ..	1	2								
W	L	N	O	<i>Spergula arvensis a. vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. sativa</i> .. .. .		1	2				6	7			
W	L	N	O	<i>Lepigonum rubrum</i> .. .. .	Brit. ..	1	2	3	4	5	6			8	9
W	L	N	O	<i>Claytonia perfoliata</i> .. .. .		1									
W	L	N	O	<i>Montia fontana a. repens</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9	
W	L	N	O	" <i>δ. erecta</i> .. .. .		1	2								
W	L	N	O	<i>Elatine hexandra</i> .. .. .	Eng. ..		2								
W	L	N	O	<i>Hypericum Androsæmum</i> .. .. .	Atlan. ..		2				6				
W	L	N	O	" <i>perforatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. angustifolium</i> .. .. .											
W	L	N	O	" <i>calycinum</i> .. .. .											
W	L	N	O	" <i>dubium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. maculatum</i> .. .. .		1	2								
W	L	N	O	" <i>quadratum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>humifusum</i> .. .. .	Brit. ..	1	2	3	4	5	6			8	9
W	L	N	O	" <i>pulchrum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Hypericum hirsutum</i> .. .. .	Brit. ..		2	3	4	5	6	7	8	9	10
				" <i>montanum</i> .. .. .	.. ..										
W	L	N	O	" <i>elodes</i> .. .. .	Atlan...	1	2								
W	L	N	O	<i>Malva moschata</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvestris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>rotundifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8		
W			O	" <i>micans</i> .. .. .	.. ..						6				
W			O	" <i>borealis</i> .. .. .	.. ..						6				
W	L		O	* <i>Tilia platyphyllos</i> .. .. .	Eng. ..		2				6				
W	L		O	" <i>vulgaris</i> .. .. .	.. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>cordata</i> .. .. .	Eng. ..			3	4		6			9	
W	L	N	O	<i>Radiola linoides</i> .. .. .	Brit. ..		2		4		6		8		
W	L	N	O	<i>Linum catharticum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
				" <i>perenne</i> .. .. .	.. ..										
W			O	" <i>angustifolium</i> .. .. .	.. ..					4					
W	L		O	" <i>usitatissimum</i> .. .. .	.. ..	1			4	5	6			9	
W			O	* <i>Geranium sylvaticum</i> ? .. .. .	Scot. ..	1								9	
W			O	" <i>pneum</i> .. .. .	.. ..	1	2		4	5	6				
W	L	N	O	" <i>pratense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. alba</i> .. .. .	.. ..				4						
W	L	N	O	" <i>pyrenaicum</i> .. .. .	Eng. ..		2		4		6	7			
W	L	N	O	" <i>molle</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pusillum</i> .. .. .	Eng. ..	1	2		4		6	7	8	9	
W			O	" <i>rotundifolium</i> .. .. .	.. ..										
W	L	N	O	" <i>dissectum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			O	" <i>columbinum</i> .. .. .	Eng. ..	1			4	5	6			9	
W	L	N	O	" <i>lucidum</i> .. .. .	Brit. ..	1	2	3	4	5	6		8		
W	L	N	O	" <i>Robertianum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. flore-albo</i> .. .. .	.. ..		2		4						
W	L	N	O	<i>Erodium cicutarium</i> .. .. .	Brit. ..	1	2		4	5	6				
W			O	" <i>δ. chærophyllum</i> .. .. .	.. ..				4						
W	L	N	O	" <i>*moschatum</i> .. .. .	.. ..	1	2		4					9	
W			O	" <i>maritimum</i> .. .. .	Atlan...						6				
W	L	N	O	<i>Oxalis Acetosella</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W			O	" <i>stricta</i> .. .. .	.. ..				3	4	6				
W			O	<i>Impatiens Noli-me-tangere</i> .. .. .	.. ..		2								
W			O	" <i>parviflora</i> .. .. .	.. ..										
W	L	N	O	<i>Ilex Aquifolium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Euonymus europæus</i> .. .. .	Eng. ..		2		4	5	6	7	8	9	
W	L	N	O	<i>Rhamnus catharticus</i> .. .. .	Eng. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Frangula</i> .. .. .	Eng. ..	1	2	3	4		6	7	8	9	10
W	L	N	O	<i>Acer Pseudo-platanus</i> .. .. .	.. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>campestris</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Genista anglica</i> .. .. .	Brit. ..	1	2		4	5	6				
W	L	N	O	" <i>tinctoria</i> .. .. .	Eng. ..		2	3	4	5	6	7	8	9	
W	L	N	O	<i>Ulex europæus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Gallii</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>nanus</i> .. .. .	.. ..										
W	L	N	O	<i>Cytisus scoparius</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Ononis repens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>spinosa</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W			O	<i>Trigonella ornithopodioides</i> .. .. .	.. ..										
W	L	N	O	<i>Medicago sativa</i> .. .. .	.. ..	1		3	4	5	6	7	8		10
W	L	N	O	" <i>lupulina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>denticulata</i> .. .. .	Eng. ..			3			6				
W				" <i>δ. appiculata</i> .. .. .	.. ..						6				
W				" <i>c. lappacea</i> .. .. .	.. ..						6				
W	L	N	O	" <i>maculata</i> .. .. .	Eng. ..			3	4	5	6				
W	L	N	O	" <i>officinalis</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W			O	" <i>*alba</i> .. .. .	.. ..	1	2		4						
W			O	" <i>*arvensis</i> .. .. .	Eng. ..	1		3	4	5	6	7	8	9	10
W			O	" <i>parviflora</i> .. .. .	.. ..		2				6				
W	L	N	O	<i>Trifolium subterraneum</i> .. .. .	Eng. ..				4						
W				" <i>pratense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. parvifolium</i> .. .. .	.. ..					5					
W				" <i>var. album</i> .. .. .	.. ..					4					
W	L	N	O	" <i>medium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>incarnatum</i> .. .. .	.. ..	1	2			4					
W	L	N	O	" <i>arvense</i> .. .. .	Brit. ..	1			4	5	6			9	
W	L	N	O	" <i>striatum</i> .. .. .	Eng. ..	1				4	5	6	7	9	
W				" <i>δ. erectum</i> .. .. .	.. ..					4					
W?	N	O		" <i>scabrum</i> .. .. .	Eng. ..					4					

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Trifolium hybridum</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. elegans</i> .. .. .					4						
W	L	N	O	" <i>repens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>fragiferum</i> .. .. .	Eng. ..				4	5	7	8	9	10	
W	L	N	O	" <i>agrarium</i> .. .. .		1			4						
W	L	N	O	" <i>procumbens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>dubium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>filiforme</i> .. .. .	Eng. ..	1	2	3	4			7	8	9	
W	L	N	O	<i>Anthyllus Vulneraria</i> .. .. .	Brit. ..		2		4	5		7	8	9	10
W	L	N	O	<i>Lotus corniculatus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. villosus</i> .. .. .					4						10
W	L	N	O	" <i>c. crassifolius</i> .. .. .					4				8	9	10
W	L	N	O	" <i>tenuis</i> .. .. .	Brit. ..		2		4	5		7	8	9	
W	L	N	O	" <i>pilosus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Astragalus hypoglottis</i> .. .. .											
W	L	N	O	" <i>glycyphyllos</i> .. .. .	Germ. ..				4	5			8	9	
W	L	N	O	<i>Ornithopus perissillus</i> .. .. .	Brit. ..	1	2	3	4	5	6		8		
W	L	N	O	<i>Cornilla varia</i> .. .. .		1									
W	L	N	O	<i>Hippocrepis comosa</i> .. .. .	Eng. ..				4						
W	L	N	O	" <i>Onobrychis sativa</i> .. .. .	Eng. ..				4	5			8	9	10
W	L	N	O	<i>Vicia hirsuta</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>tetrasperma</i> .. .. .	Eng. ..	1	2		4	5	6		8	9	
W	L	N	O	" <i>gracilis</i> .. .. .	Eng. ..				4	5		7	8		
W	L	N	O	" <i>Cracca</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvatica</i> .. .. .	Scot. ..	1	2	3							
W	L	N	O	" <i>sepium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sativa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>angustifolia</i> <i>s. segetalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Bobartii</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>lathyroides</i> .. .. .	Brit. ..				3	4					9
W	L	N	O	<i>Lathyrus Aphaca</i> .. .. .	Eng. ..				4				8		
W	L	N	O	" <i>Nissolia</i> .. .. .	Eng. ..				3	4	5	6	7	8	9
W	L	N	O	" <i>pratensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>latifolius</i> .. .. .						5					
W	L	N	O	" <i>sylvestris</i> .. .. .	Eng. ..				3	4	5		7		9
W	L	N	O	" <i>palustris</i> .. .. .											
W	L	N	O	" <i>macrorrhizus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Prunus communis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. fruticans</i> .. .. .		1				5	6	7	8	9	10
W	L	N	O	" <i>insititia</i> .. .. .	Eng. ..				2	3	4		7	8	9
W	L	N	O	" <i>domestica</i> .. .. .					2	4			8	9	
W	L	N	O	" <i>Avium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Cerasus</i> .. .. .	Eng. ..				2	4	5	6	7	8	9
W	L	N	O	" <i>*Padus</i> .. .. .	Scot. ..	1	2	4			6				
W	L	N	O	<i>Spiræa Ulmaria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Filipendula</i> .. .. .	Eng. ..				4	5		7	8	9	10
W	L	N	O	<i>Rubus Idæus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. Leesii</i> .. .. .					4						
W	L	N	O	" <i>suberectus</i> .. .. .		1	2	3				6		8	
W	L	N	O	" <i>fissus</i> .. .. .		1	2	3						9	
W	L	N	O	" <i>plicatus</i> .. .. .		1	2	3				6			
W	L	N	O	" <i>nitidus b. hamuloeus</i> .. .. .		1									
W	L	N	O	" <i>affinis</i> .. .. .		1	2	3	4			6		8	
W	L	N	O	" <i>hemistemon</i> .. .. .					3						
W	L	N	O	" <i>Lindleanus</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>rharnifolius</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>b. cordifolius</i> .. .. .		1			3	4				9	
W	L	N	O	" <i>ramosus</i> .. .. .		1			3	4					
W	L	N	O	" <i>pubescens</i> .. .. .		1	2	3	4	5	6	7			
W	L	N	O	" <i>b. macroacanthus</i> .. .. .					2	3			8	9	10
W	L	N	O	" <i>rusticanus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>leucostachys</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. conspicuus</i> .. .. .		1	2	3	4	5	6		8	9	10
W	L	N	O	" <i>pyramidalis</i> .. .. .					2				7	8	
W	L	N	O	" <i>montanus</i> .. .. .					3	4					
W	L	N	O	" <i>Colemani</i> .. .. .								6			
W	L	N	O	" <i>carpinifolius</i> .. .. .		1	2	3				6			
W	L	N	O	" <i>villicaulis</i> .. .. .		1	2	3	4			6		9	
W	L	N	O	" <i>b. adscitus</i> .. .. .					2			6			
W	L	N	O	" <i>gratus</i> .. .. .					2	3		6		8	
W	L	N	O	" <i>Salteri</i> .. .. .		1	2				5		8	9	
W	L	N	O	" <i>b. calvatus</i> .. .. .		1	2	3			6				

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L		O	<i>Rubus Maassi</i> .. .. .		I	2	3		5	6	7	8	9	10
W	L		O	" <i>macrophyllus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. Schlechtendalii</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. amplificatus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>d. glabratus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>mucronatus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>Sprengelii</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. Borrieri</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>erubescens</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>Bloxamii</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>thyrsiflorus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>rosaceus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. hystrix</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>præruptorum</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L		O	" <i>Babingtonii</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>scaber</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>echinatus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. microphyllus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Radula</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. Leightonii</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>anglo-saxonicus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Koehleri</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. infestus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pallidus, Weike.</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>fusco-ater</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>emersistylus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>diversifolius</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Lejeuni</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>flexuosus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>fuscus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>foliosus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Bellardi</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. dentatus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>hirtus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. rotundifolius</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Balfourianus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>corylifolius δ. subulstris</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. conjungens</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. fasciculatus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>scabrosus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>deltoides</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>cæsius δ. umbrosus</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. tenuis</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. ligerinus</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. intermedius</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Geum urbanum</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>rivale</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>intermedium</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Fragaria vesca</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>elatior</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Potentilla Fragariastrum</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Tormentilla</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>procumbens</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. mixta</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>reptans</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>anserina</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>argentea</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>palustris</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Alchemilla arvensis</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>vulgaris</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Agrimonia Eupatoria</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>odorata</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Poterium Sanguisorba</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>*muricatum</i> .. .. .	Eng. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>officinale</i> .. .. .	Inter. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Rosa spinosissima</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>involuta δ. Sabini</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. Doniana</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>mollis</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>tomentosa</i> .. .. .	Brit. ..	I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. subglobosa</i> .. .. .		I	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. scabriuscula</i> .. .. .		I	2	3	4	5	6	7	8	9	10

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W			0	<i>Rosa e. fetida</i> .. .. .		1	2	3	4			7			
W	L	N	0	" <i>rubiginosa</i> .. .. .	Eng. ..	2		4		6		8	9		
W	L	N	0	" <i>micrantha</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W			0	" <i>c. hystrix</i> .. .. .									8		
W			0	" <i>agrestis</i> <i>b. Billietii</i> .. .. .	Eng. ..				4		6				
W	L		0	" <i>d. inodora</i> .. .. .	Eng. ..						7		9	10	
W	L		0	" <i>canina</i> <i>a. lutetiana</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			0	" <i>b. surculosa</i> .. .. .		2	3	4	5	6	7	8	9	10	
W	L		0	" <i>c. sphaerica</i> .. .. .		1							8	9	
W			0	" <i>d. senticosa</i> .. .. .		2	3	4	5		7	8	9		
W	L	N	0	" <i>e. dumalis</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	0	" <i>f. biserrata</i> .. .. .		2	3	4	5	6	7	8	9	10	
W	L	N	0	" <i>g. urtica</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W			0	" <i>sub-var. platyphylla</i> .. .. .		1	2				7				
W	L		0	" <i>h. frondosa</i> .. .. .		1	2	3	4	5	6	7			
W	L		0	" <i>i. arvensis</i> .. .. .		1	2	3	4	5	6	7	8		10
W?			0	" <i>j. dumetorum</i> .. .. .		1	2	3	4	5		7	8		10
W			0	" <i>sub-var. pruinosa</i> .. .. .				3?							
W			0	" <i>k. obtusifolia</i> .. .. .		1	2		4		6				
W	L		0	" <i>n. tomentella</i> .. .. .		1	2	3	4	5	6	7			10
W			0	" <i>sub-var. affinis</i> .. .. .		1			4		6		8		10
W	L		0	" <i>o. andegavensis</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L		0	" <i>p. verticillanthera</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W			0	" <i>sub-var. latebrosa</i> .. .. .		2									
W			0	" <i>sub-var. aspernata</i> .. .. .									8		10
W			0	" <i>q. collina</i> .. .. .		1		3			6				
W	L		0	" <i>r. Koscinciana</i> .. .. .											
W			0	" <i>s. caesia</i> .. .. .		1	2	3	4	5	6		8		
W			0	" <i>t. concinna</i> .. .. .			2						8		
W			0	" <i>u. decipiens</i> .. .. .		1	2	3	4		6			9	
W			0	" <i>v. glauca</i> .. .. .		1	2	3	4	5	6	7			
W			0	" <i>w. subcrusta</i> .. .. .		2	3	4	5	6	7	8	9	10	
W			0	" <i>y. implexa</i> .. .. .		2	3					7		9	
W	L		0	" <i>z. coriifolia</i> .. .. .		1		3	4	5					
W			0	" <i>a.* Watsoni</i> .. .. .		1	2	3				7	8		
W			0	" <i>d.* Borreri</i> .. .. .		2	3	4	5						
W	L		0	" <i>c.* Bakeri</i> .. .. .				3							
W			0	" <i>f.* marginata</i> .. .. .		2		4	5	6		8	9		
W			0	" <i>stylosa</i> .. .. .											
W		N	0	" <i>b. systyla</i> .. .. .	Eng. ..								8		
W			0	" <i>var. pseudo-rusticana</i> .. .. .						4	5				
W	L	N	0	" <i>f. gallicoides</i> .. .. .					4						
W			0	" <i>arvensis</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W			0	" <i>b. bibracteata</i> .. .. .		2	3	4	5	6	7	8	9		
W			0	" <i>c. setosa</i> .. .. .					4						
W	L	N	0	<i>Pyrus torminalis</i> .. .. .	Eng. ..	2	3	4					8	9	
W			0	" <i>Aria</i> .. .. .	Eng. ..	1	2	3	4	5	6	7		9	
W	L	N	0	" <i>b. hybrida</i> .. .. .					5						
W			0	" <i>Aucuparia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			0	" <i>communis</i> <i>a. Pyrastrer</i> .. .. .	Eng. ..				4	5	6	7	8	9	10
W			0	" <i>b. Achras</i> .. .. .					5			7	8		
W	L	N	0	" <i>Malus a. acerba</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	0	" <i>b. mitis</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	0	<i>Crataegus oxyacanthoides</i> .. .. .	Brit. ..	2	3	4	5	6	7	8	9	10	
W			0	" <i>b. monogyna</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W			0	" <i>*germanica</i> .. .. .											
W	L	N	0	<i>Saxifraga tridactylites</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	0	" <i>granulata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	0	<i>Chrysosplenium oppositifolium</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9	
W	L	N	0	" <i>alternifolium</i> .. .. .	Brit. ..	1	2		4		6	7			
W			0	<i>Parnassia palustris</i> .. .. .	Scot. ..	1	2				6				
W			0	<i>Ribes Grossularia</i> .. .. .	Inter. ..	1	2		4	5			8	9	
W		N	0	" <i>b. Uva-crispa</i> .. .. .											
W	L	N	0	" <i>*alpinum</i> .. .. .	Inter. ..	1									
W	L	N	0	" <i>*rubrum</i> .. .. .		2	3	4	5						10
W	L	N	0	" <i>*nigrum</i> .. .. .	Inter. ..	1		3			6	7		9	
W	L	N	0	<i>Cotyledon Umbilicus</i> .. .. .	Atlan. ..	2	3	4							
W			0	<i>Sedum Telephium</i> .. .. .	Eng. ..	2					6	7	8		
W			0	" <i>*album</i> .. .. .		2			4			6	7	8	
W			0	" <i>dasyphyllum</i> .. .. .											
W	L	N	0	" <i>acre</i> .. .. .	Brit. ..	2	3	4				7	8	9	10
W	L	N	0	" <i>reflexum</i> <i>b. albescens</i> .. .. .		2	3	4	5	6	7	8	9		

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L		O	<i>Semprevivum tectorum</i> .. ..		1			3	4		6	7		
W	L	N	O	<i>Drosera rotundifolia</i> .. ..	Brit. ..	1	2					6			
W	L		O	" <i>intermedium</i> .. ..											
W	L	N	O	<i>Hippuris vulgaris</i> .. ..	Germ...				3	4	5	6			10
W	L	N	O	<i>Myriophyllum verticillatum</i> .. ..	Eng. ..		2			4	5	6	8		
W	L		O	" <i>δ. pectinatum</i> .. ..								6			
W	L	N	O	" <i>spicatum</i> .. ..	Brit. ..	1	2			4	5	6	7	9	10
W	L	N	O	" <i>alterniflorum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8		10
W	L		O	<i>Callitriche vernalis</i> .. ..	Brit. ..				4			7			
W	L	N	O	" <i>stagnalis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. platycarpa</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>hamulata</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>obtusangula</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8		10
W	L	N	O	<i>Lythrum Salicaria</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Hyssopifolia</i> .. ..											
W	L	N	O	<i>Peplis Portula</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Epilobium angustifolium</i> .. ..	Brit. ..		2	3	4	5	6				
W	L		O	" <i>δ. brachycarpum</i> .. ..			1	2							
W	L	N	O	" <i>hirsutum</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>parviflorum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>montanum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. flore-albo</i> .. ..			2	3	4						
W	L	N	O	" <i>roseum</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>tetragonum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>obscurum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>palustre</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	<i>Enothera biennis</i> .. ..			2	3	4		6				
W	L	N	O	<i>Circea Lutetiana</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>*alpina</i> .. ..	Scot. ..		2								
W	L	N	O	<i>Bryonia dioica</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Hydrocotyle vulgaris</i> .. ..	Brit. ..	1	2	3	4		6	7	8		
W	L	N	O	<i>Sanicula europæa</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Conium maculatum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Smyrniol Olusatrum</i> .. ..											
W	L	N	O	<i>Bupleurum rotundifolium</i> .. ..	Germ...					4	5	6	8	9	
W	L	N	O	<i>Apium graveolens</i> .. ..	Eng. ..					4	5		7	8	9
W	L	N	O	" <i>nodiflorum</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. repens</i> .. ..		1	2	3	4		6			9	
W	L	N	O	" <i>inundatum</i> .. ..	Brit. ..	1	2	3	4			7		9	
W	L	N	O	<i>Carum Petroselinum</i> .. ..						4	5				
W	L	N	O	" <i>segetum</i> .. ..	Eng. ..					4	5	6	7		
W	L	N	O	" <i>Carui</i> .. ..		1	2	3	4		5	6			
W	L	N	O	<i>Sison Amomum</i> .. ..	Eng. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Sium latifolium</i> .. ..											
W	L	N	O	" <i>erectum</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Ægopodium Podagraria</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Pimpinella Saxifraga</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. dissecta</i> .. ..								7	8	9	10
W	L	N	O	" <i>major</i> .. ..	Eng. ..	1	2	3	4		6		8	9	
W	L	N	O	<i>Conopodium denudatum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>*Myrrhis odorata</i> .. ..	Inter. ..		1	2						9	
W	L	N	O	<i>Chærophyllyum temulum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Scaadix Pecten-veneris</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Anthriscus vulgaris</i> .. ..	Brit. ..		2	3	4		6		9		
W	L	N	O	" <i>sylvestris</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Feniculum officinale</i> .. ..	Eng. ..					4	5				
W	L	N	O	<i>Oenanthe fistulosa</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8		
W	L	N	O	" <i>peucedanifolia</i> .. ..	Eng. ..		1			4					
W	L	N	O	" <i>Lachenalii</i> .. ..	Eng. ..					4	5	7	8		
W	L	N	O	" <i>crocata</i> .. ..	Brit. ..	1	2								
W	L	N	O	" <i>Phellandrium</i> .. ..	Eng. ..					4				9	
W	L	N	O	" <i>fluviatilis</i> .. ..	Eng. ..				3	4	5	6			
W	L	N	O	<i>Æthusa Cynapium</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Silva pratensis</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Angelica sylvestris</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Peucedanum sativum</i> .. ..	Eng. ..					4	5		7	8	9
W	L	N	O	<i>Heracleum Sphondylium</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. angustifolium</i> .. ..						4			7	8	9
W	L	N	O	<i>Daucus Carota</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Caucalis daucoides</i> .. ..	Germ...					4			8	9	
W	L	N	O	" <i>arvensis</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Anthriscus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10

War.	Lalc.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Caucalis nodosa</i> .. .. .	Eng. ..	1			4	5			8		
W	L	N	O	<i>Hedera Helix</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Cornus sanguinea</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Adoxa Moschatellina</i> .. .. .	Brit. ..	1	2		4	5	6	7	8	9	
W	L	N	O	<i>Sambucus nigra</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>δ. laciniata</i> .. .. .										9	
W	L	N	O	<i>Ebulus</i> .. .. .	Eng. ..		2	3	4			7	8		
W	L	N	O	<i>Viburnum Opulus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Lantana</i> .. .. .	Eng. ..				4	5		7	8	9	10
W	L	N	O	<i>Lonicera Periclymenum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Xylosteum</i> .. .. .		1									
W	L	N	O	<i>Galium Cruciatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>verum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>δ. ochroleucum</i> .. .. .					4						
W	L	N	O	<i>erectum</i> .. .. .	Germ...		2		4	5		8	9	10	
W	L	N	O	<i>Mollugo</i> .. .. .	Eng. ..		2			5		7	8	9	10
W	L	N	O	<i>δ. scabrum</i> .. .. .						5		7			10
W	L	N	O	<i>c. Bakeri</i> .. .. .					4	5			9		
W	L	N	O	<i>saxatile</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>palustre</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>δ. elongatum</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>c. Witheringii</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>uliginosum</i> .. .. .	Brit. ..	1	2		4	5	6	7	8		
W	L	N	O	<i>Aparine</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>tricornis</i> .. .. .	Germ...				4	5		7	8	9	
W	L	N	O	<i>Asperula odorata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>cynanchica</i> .. .. .	Eng. ..							8			
W	L	N	O	<i>Sherardia arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Valeriana dioica</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>officinalis</i> <i>z. Mikanii</i> .. .. .	Brit. ..	1	2		4	5		8	9		
W	L	N	O	<i>δ. sambucifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Valerianella olitoria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>carinata</i> .. .. .								8			
W	L	N	O	<i>Auricula</i> .. .. .	Eng. ..				4						
W	L	N	O	<i>dentata</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8		10
W	L	N	O	<i>δ. mixta</i> .. .. .			2	3	4	5	6	8			
W	L	N	O	<i>Dipsacus sylvestris</i> .. .. .	Eng. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	<i>pilosus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Scabiosa succisa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>columbaria</i> .. .. .	Eng. ..				4	5		7	8		
W	L	N	O	<i>arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>δ. integrifolia</i> .. .. .						5		8			
W	L	N	O	<i>Eupatorium cannabinum</i> .. .. .	Brit. ..	1	2		4	5	6	8	9		
W	L	N	O	<i>Solidago virgaurea</i> .. .. .	Brit. ..	1	2		4		6				
W	L	N	O	<i>Bellis perennis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Erigeron acre</i> .. .. .	Eng. ..				4	5	6	8			
W	L	N	O	<i>Filago germanica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>spatulata</i> .. .. .											
W	L	N	O	<i>apiculata</i> .. .. .											
W	L	N	O	<i>minima</i> .. .. .	Brit. ..		2				6				
W	L	N	O	<i>Antennaria dioica</i> .. .. .											
W	L	N	O	<i>Gnaphalium uliginosum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>δ. pilulare</i> .. .. .					4						
W	L	N	O	<i>sylvaticum</i> .. .. .	Brit. ..		2	3	4		6		9		
W	L	N	O	<i>Inula Helenium</i> .. .. .	Eng. ..	1			4			8	9		
W	L	N	O	<i>Conyza</i> .. .. .	Eng. ..	1			4		6	7	8	9	
W	L	N	O	<i>Pulicaria dysenterica</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>vulgaris</i> .. .. .	Germ...	1			4						
W	L	N	O	<i>Bidens cernua</i> .. .. .	Eng. ..	1	2		4	5	6	8	9	10	
W	L	N	O	<i>δ. radiata</i> .. .. .											
W	L	N	O	<i>tripartita</i> .. .. .	Eng. ..	1	2		4		6	7	8		10
W	L	N	O	<i>Achillea Millefolium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Parmica</i> .. .. .	Brit. ..	1	2	3	4	5	6	8	9	10	
W	L	N	O	<i>Anthemis Cotula</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>arvensis</i> .. .. .	Eng. ..	1	2		4	5		7	8	9	
W	L	N	O	<i>nobilis</i> .. .. .	Eng. ..							8			
W	L	N	O	<i>Chrysanthemum segetum</i> .. .. .	Brit. ..	1	2		4		6	7	8		
W	L	N	O	<i>Leucanthemum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Parthenium</i> .. .. .	Brit. ..	1	2	3	4			7	8		10
W	L	N	O	<i>Matricaria inodora</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Chamomilla</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Tanacetum vulgare</i> .. .. .	Brit. ..		2	3	4		6		9		

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
	L	N	O	<i>Artemesia Absinthium</i> .. .. .											
W	L	N	O	" <i>vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. coarctata</i> .. .. .											
W	L	N	O	<i>Tussilago Farfara</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Petasites fragrans</i> .. .. .											
W	L	N	O	" <i>vulgaris</i> .. .. .	Brit. ..		2	3	4		6	7	8	9	10
W	L	N	O	" <i>albus</i> .. .. .					3	4					
	L	N	O	<i>Doronicum Pardalianches</i> .. .. .											
W	L	N	O	" <i>plantagineum</i> .. .. .											
W	L	N	O	<i>Senecio vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvaticus</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9	
W	L	N	O	" <i>squalidus</i> .. .. .						4	5	6			
W	L	N	O	" <i>erucifolius</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>Jacobaea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>aquaticus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. pinnatifidus</i> .. .. .							6				
	L	N	O	" <i>saracenicus</i> .. .. .											
	L	N	O	" <i>campestris</i> .. .. .											
	L	N	O	" <i>crassifolius</i> .. .. .											
	L	N	O	" <i>vernalis</i> .. .. .											
W	L	N	O	<i>Carlina vulgaris</i> .. .. .	Eng. ..	1			4	5		7	8	9	
W	L	N	O	<i>Arctium majus</i> .. .. .	Eng. ..	1	2	3	4	5		7	8	9	10
W	L	N	O	" <i>nemorosum</i> .. .. .						5		7	8		
W	L	N	O	" <i>intermedium</i> .. .. .		1	2	3	4	5	6	7	8		
W	L	N	O	" <i>minus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Carduus pycnocephalus</i> .. .. .											
W	L	N	O	" <i>nutans</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8		10
W	L	N	O	" <i>nutans x crispus</i> .. .. .		1	2								
W	L	N	O	" <i>crispus</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>polyanthemus</i> .. .. .						4	5	6	7	8	10
W	L	N	O	" <i>acanthoides</i> .. .. .						4	5	6	7	8	10
W	L	N	O	<i>Cnicus lanceolatus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>eriphorus</i> .. .. .	Eng. ..					4	5	6	7	8	9
W	L	N	O	" <i>palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pratensis</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W?	L	N	O	" <i>heterophyllus</i> .. .. .	Scot. ..			3?							
W	L	N	O	" <i>acaulis</i> .. .. .	Eng. ..					4	5	6	7	8	
W	L	N	O	" <i>arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. setosus</i> .. .. .						4					
W	L	N	O	<i>Onopordon Acanthium</i> .. .. .	Eng. ..					4	5	6			
W	L	N	O	<i>Silybum Marianum</i> .. .. .						4					
W	L	N	O	<i>Serratula tinctoria</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Centaurea nigra</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>forma riadata</i> .. .. .						4	5	6	7	8	9
W	L	N	O	" <i>b. decipiens</i> .. .. .											
W	L	N	O	" <i>Scabiosa</i> .. .. .	Brit. ..		2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Cyanus</i> .. .. .	Brit. ..	1	2	3	4						
W	L	N	O	" <i>Calcitrapa</i> .. .. .											
W	L	N	O	" <i>solstitialis</i> .. .. .						4					
W	L	N	O	<i>Cichorium Intybus</i> .. .. .	Eng. ..	1	2	3	4	5		7	8	9	
W	L	N	O	<i>Lapsana communis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Arnoseris pusilla</i> .. .. .											
W	L	N	O	<i>Picris hieracioides</i> .. .. .	Eng. ..		2		4	5		7	8	9	
W	L	N	O	" <i>b. arvalis</i> .. .. .											
W	L	N	O	" <i>echioides</i> .. .. .	Eng. ..				4	5		7	8	9	
W	L	N	O	<i>Crepis foetida</i> .. .. .											
W	L	N	O	" <i>taraxacifolia</i> .. .. .						4					
W	L	N	O	" <i>setosa</i> .. .. .						4					
W	L	N	O	" <i>virens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>biennis</i> .. .. .	Germ. ..					4	5				
W	L	N	O	" <i>paludosa</i> .. .. .	Scot. ..	1									
W	L	N	O	<i>Hieracium Pilosella</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>murorum</i> .. .. .											
W	L	N	O	" <i>vulgatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>d. maculatum</i> .. .. .					2	3	4				
W	L	N	O	" <i>amplexicaule</i> .. .. .											
W	L	N	O	" <i>tridentatum</i> .. .. .	Eng. ..				3				7	9	
W	L	N	O	" <i>umbellatum</i> .. .. .	Eng. ..	1	2	3	4	5					
W	L	N	O	" <i>boreale</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Hypochaeris glabra</i> .. .. .	Germ. ..	1									
W	L	N	O	" <i>radicata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8		10
W	L	N	O	" <i>maculata</i> .. .. .											

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Leontodon hirtus .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" hispidus .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" autumnalis .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Taraxacum a. Dens-Leonis ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. erythrospermum ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" c. palustre .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" d. udum .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Lactuca virosa .. ..	Germ. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" muralis .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Sonchus oleraceus .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" asper .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" arvensis .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Tragopogon pratensis ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. minus .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Jasione montana .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	*Wahlenbergia hederacea ..	Atlan. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Campanula glomerata ..	Germ. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Trachelium .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" latifolia .. ..	Scot. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" rapunculoides .. ..	Local ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" rotundifolia .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Rapunculus .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" patula .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Specularia hybrida .. ..	Germ. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Vaccinium Oxycoccus ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Vitis-Idæa .. ..	Highl. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Myrtillus .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Calluna Erica .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. incana .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Erica Tetralix .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" cinerea .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Pyrola media .. ..	Scot. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" minor .. ..	Scot. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Hypopithys multiflora ..	Germ. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Hottonia palustris .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Primula vulgaris .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. intermedia ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" c. caulescens ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" veris .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Lysimachia vulgaris ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Nummularia .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" nemorum .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Anagallis arvensis ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. pallida .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" cærulea .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" tenella .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Centunculus minimus ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Samolus Valerandi ..	Eng. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Fraxinus excelsior ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Ligustrum vulgare ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	*Vinca major .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" minor .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Blackstonia perfoliata ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Erythraea Centaurium ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" pulchella .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Gentiana Pneumonanthe ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" Amarella .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" germanica .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" campestris .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Menyanthes trifoliata ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Limnanthemum peltatum ..	Germ. ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Polemonium cæruleum ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Cynoglossum officinale ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" montanum .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Symphytum officinale ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" δ. patens .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" tuberosum .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" tauricum .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Borago officinalis ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Anchusa officinalis ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" sempervirens ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Lycopsis arvensis ..	Brit. ..	1	2	3	4	5	6	7	8	9	10

War.	Ialc.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Pulmonaria officinalis</i> .. .. .	Brit. ..	2	3	4							
W	L	N	O	<i>Myosotis cæspitosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>strigulosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>repens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvatica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. umbrosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>collina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>versicolor</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Lithospermum officinale</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Echium vulgare</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Calystegia sepium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Convolvulus arvensis</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Cuscuta Epifilium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>europæa</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Epithymum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Trifolii</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Lycium barbarum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Solanum Dulcamara</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nigrum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Atropa Belladonna</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Datura Stramonium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Hyoscyamus niger</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Verbascum Thapsus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nigrum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>virgatum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Blattaria</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Thapsa-virgata</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Linaria Cymbalaria</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Elatine</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>spuria</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>purpurea</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>*repens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>vulgaris</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>viscida</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Antirrhinum majus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Orontium</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Scrophularia Babisii</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. cinerea</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>umbrosa</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nodosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Limosella aquatica</i> .. .. .	Germ. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Digitalis purpurea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Veronica hederæfolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>polita</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>agrestis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>*persica</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>serpyllifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>officinalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Chamædrys</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>montana</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>scutellata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. pubescens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Anagallis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Beccabunga</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Euphrasia officinalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. gracilis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Bartsia Odontites a. verna</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. serotina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Pedicularis palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvatica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Melampyrum pratense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>cristatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Rhinanthus Crista-galli</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Orobanchæ cærulea</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>major</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>elatio</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Hederæ</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>minor</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10

## SUMMARY OF GEOGRAPHICAL DISTRIBUTION.

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War.	Leic.	Nor.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Lathraea Squamaria .. .. .	Eng. ..			3							
W	L	N	O	Utricularia vulgaris .. .. .	Brit. ..	1	2		4		6				
W		N?		" minor .. .. .	Brit. ..	1									
W	L	N	O	Pinguicula vulgaris .. .. .	Scot. ..	1	2				6				
W	L	N	O	Verbena officinalis .. .. .	Eng. ..			3	4	5	6	7		9	
W		N		Mentha rotundifolia .. .. .	Eng. ..	1									
W				" <i>alopecuroides</i> .. .. .					4						
W	L	N	O	" <i>sylvestris</i> .. .. .	Eng. ..								8		
W				" <i>var. nemorosa</i> .. .. .					4						
W	L		O	" <i>viridis</i> .. .. .					4						
W	L	N	O	" <i>piperita a. officinalis</i> .. .. .	Eng. ..	1	2	3	4			7	8	9	
W				" <i>δ. vulgaris</i> .. .. .			2		4						
W	L	N	O	" <i>hirsuta</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. subglabra</i> .. .. .		1	2	3		5	6		8	9	10
W	L	N	O	" <i>sativa a. genuina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. paludosa</i> .. .. .			2	3		5	6				
W				" <i>c. subglabra</i> .. .. .			2	3		5	6				
W	L	N		" <i>rubra</i> .. .. .			2		4	5	6				
W?				" <i>gracilis?</i> .. .. .							6				
W			O	" <i>δ. cardiaca</i> .. .. .							6		8		
W	L		O	" <i>gentilis</i> .. .. .					4		6				
W	L	N	O	" <i>arvensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W				" <i>c. agrestis</i> .. .. .							6				
W				" <i>d. præcox</i> .. .. .			2		4						
W	L	N	O	" <i>Pulegium</i> .. .. .	Eng. ..	1					6				
W	L	N	O	Lycopus europæus .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Origanum vulgare .. .. .	Brit. ..				4		6				
W	L	N	O	Thymus Serpyllum .. .. .	Brit. ..	1	2	3	4	5		7	8	9	
W	L	N	O	" <i>Chamædrys</i> .. .. .			2		4	5	6	7	8	9	10
W	L	N	O	Calamintha Clinopodium .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>arvensis</i> .. .. .	Brit. ..	1	2		4	5			8	9	
W	L		O	" <i>Nepeta</i> .. .. .											
W	L	N	O	" <i>officinalis</i> .. .. .	Eng. ..	1		3	4	5	6	7	8	9	
W				" <i>δ. Briggsii</i> .. .. .					4			7	9		
W	L		O	<i>Melissa officinalis</i> .. .. .						5		7			
W	L	N	O	Salvia Verbenaca .. .. .	Eng. ..			3	4			8			
W				" <i>pratensis</i> .. .. .	Germ. ..				4						
W	L	N	O	Nepeta Cataria .. .. .	Eng. ..		2		4	5	6	7	8	9	
W	L	N	O	" <i>Glechoma</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. parviflora</i> .. .. .		1	2			5					
W	L		O	" <i>c. hirsuta</i> .. .. .			2			5	6		8	9	
W	L	N	O	Scutellaria galericulata .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>minor</i> .. .. .	Eng. ..	1	2			6		8			
W	L	N	O	Prunella vulgaris .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Marrubium vulgare .. .. .	Eng. ..				4	5					
W	L	N	O	Stachys Betonica .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W			O	" <i>germanica</i> .. .. .											
W	L	N	O	" <i>palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>ambigua</i> .. .. .	Brit. ..		2		4		6		8	9	10
W	L	N	O	" <i>sylvatica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvensis</i> .. .. .	Brit. ..	1		3	4			7	9		
W			O	" <i>annua</i> .. .. .	Germ. ..	1									
W	L	N	O	Galeopsis Ladanum .. .. .	Eng. ..				4	5		7	8	9	10
W	L	N	O	" <i>speciosa</i> .. .. .	Germ. ..	1	2		4	5		7	8	9	
W	L	N	O	" <i>tetrahit</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O?	<i>Leonorus Cardiacæ</i> .. .. .		1			4				9		
W	L	N	O	Lamium amplexicaule .. .. .	Brit. ..	1	2		4	5	6	7			10
W	L?			" <i>intermedium</i> .. .. .											
W	L	N	O	" <i>incisum</i> .. .. .	Brit. ..		2		4		6				
W	L	N	O	" <i>purpureum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>maculatum</i> .. .. .		1	2		4		6				
W	L	N	O	" <i>album</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Galeobdolon</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Bulbota nigra .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. alba</i> .. .. .											
W			O	" <i>rudérale</i> .. .. .											
W			O	Teucrium Scordium .. .. .											
W	L	N	O	" <i>Scorodonia</i> .. .. .	Brit. ..	1	2	3	4	5	6		8	9	
W	L	N	O	Ajuga reptans .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W		N?		" <i>Chamæpitys</i> .. .. .											
W	L	N	O	Plantago major .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L		O	" <i>δ. intermedia</i> .. .. .								7			

H H

War.	Leic.	Nor.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Plantago media</i> .. .. .	Eng. ..		2		4	5		7	8	9	10
W	L	N	O	" <i>lanceolata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. Timbali</i> .. .. .		1			4	5					
W	L	N	O	" <i>Coronopus</i> .. .. .	Brit. ..	1	2	3			6			9	
W	L	N	O	<i>Littorella lacustris</i> .. .. .	Brit. ..	1	2								
W	L	N	O	<i>Scleranthus annuus</i> .. .. .	Brit. ..	1	2	3	4		6	7			
W	L	N?	O	" <i>δ. biennis</i> .. .. .							4	6			
W	L	N	O	<i>Amaranthus retroflexus</i> .. .. .						4					
W	L	N	O	" <i>deflexus</i> .. .. .							6				
W	L	N	O	<i>Chenopodium polyspermum</i> .. .. .	Eng. ..		2		4			7	8	9	
W	L	N	O	" <i>δ. cymosus</i> .. .. .											
W	L	N	O	" <i>Vulvaria</i> .. .. .											
W	L	N	O	" <i>album a. candicans</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. viride</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. paganus</i> .. .. .		1	2	3	4	5	6	7			10
W	L	N	O	" <i>opulifolium</i> .. .. .		1									
W	L	N	O	" <i>ficifolium</i> .. .. .	Germ. . .						6				
W	L	N	O	" <i>murale</i> .. .. .	Eng. ..						6				
W	L	N	O	" <i>hybridum</i> .. .. .	Eng. ..				4	5				9	
W	L	N	O	" <i>uricum</i> .. .. .	Germ. . .	1									
W	L	N	O	" <i>rubrum</i> .. .. .	Eng. ..		2		4	5	6	7		9	
W	L	N	O	" <i>Bonus-Henricus</i> .. .. .	Brit. ..	1	2		4	5	6	7		9	10
W	L	N	O	<i>Atriplex patula</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. erecta</i> .. .. .							4				
W	L	N	O	" <i>c. angustifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>hastata</i> .. .. .	Brit. ..	1	2	3	4						10
W	L	N	O	" <i>deltoides</i> .. .. .		1	2		4	5	6				
W	L	N	O	" <i>rosea</i> .. .. .											
W	L	N	O	<i>Polygonum Convulvulus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. pseudo-dumetorum</i> .. .. .											
W	L	N	O	" <i>aviculare a. agrestinum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. vulgatum</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. arenastrum</i> .. .. .		1	2	3	4		6	7	8		10
W	L	N	O	" <i>δ. microsperrum</i> .. .. .			2	3	4		6	7			
W	L	N	O	" <i>δ. ruivagum</i> .. .. .			2		4	5	6	7			
W	L	N	O	" <i>Hydropiper</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>minus</i> .. .. .	Eng. ..						4				
W	L	N	O	" <i>mite</i> .. .. .											
W	L	N	O	" <i>Persicaria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. elatum</i> .. .. .							5	6			
W	L	N	O	" <i>lapathifolium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>maculatum</i> .. .. .		1			4						
W	L	N	O	" <i>amphibium</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. terrestre</i> .. .. .		1	2	3	4		7	8	9		10
W	L	N	O	" <i>Bistorta</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9	
W	L	N	O	" <i>*Fagopyrum esculentum</i> .. .. .		1	2				6	7	8	9	
W	L	N	O	<i>Rumex conglomeratus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sanguineus</i> .. .. .	Brit. ..	1					4	5	6	7	9
W	L	N	O	" <i>δ. viridis</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pulcher</i> .. .. .	Eng. ..						4	5	7		
W	L	N	O	" <i>obtusifolius</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>maritimus</i> .. .. .	Eng. ..	1					4	5	6		
W	L	N	O	" <i>acutus</i> .. .. .	Eng. ..		2	3	4		6	7	8		
W	L	N	O	" <i>crispus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. trigranulatus</i> .. .. .							4	5			
W	L	N	O	" <i>palustris</i> .. .. .											
W	L	N	O	" <i>Hydrolapathum</i> .. .. .	Eng. ..	1	2	3	4	5	6		8	9	
W	L	N	O	" <i>Acetosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Acetosella</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Asarum europæum</i> .. .. .											
W	L	N	O	<i>Aristolochia Clematidis</i> .. .. .											
W	L	N	O	<i>Daphne Mezereon</i> .. .. .	Eng. ..								8		
W	L	N	O	" <i>Laureola</i> .. .. .	Eng. ..					4	5			8	
W	L	N	O	<i>Viscum album</i> .. .. .	Eng. ..	1	2			4	5			9	
W	L	N	O	<i>Thesium linophyllum</i> .. .. .											
W	L	N	O	<i>Euphorbia Helioscopia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>platyphylla</i> .. .. .											
W	L	N	O	" <i>amygdaloides</i> .. .. .	Eng. ..		2	3	4		6		8	9	
W	L	N	O	" <i>Peplus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>exigua</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>*Lathyris</i> .. .. .											
W	L	N	O	<i>Buxus sempervirens</i> .. .. .											8

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Mercurialis perennis .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
				" <i>annua</i> .. .. .											
W	L	N	O	Ulmus montana .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>b. major</i> .. .. .		1	2	4			7				10
W				" <i>c. nitida</i> .. .. .											10
W	L	N	O	" <i>campestris</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>b. glabra</i> .. .. .		1	2	4		6					10
W	L	N	O	Humulus Lupulus .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	Urtica dioica .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>b. angustifolia</i> .. .. .						4					
		N		" <i>pilulifera</i> .. .. .											
W	L	N	O	" <i>urens</i> .. .. .	Brit. ..	1	2		4	5		7	8	9	
W	L	N	O	Parietaria officinalis .. .. .	Brit. ..	1	2	3	4	5	6		8		
W	L	N	O	Betula alba .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>glutinosa</i> .. .. .		1	2					8			9
W	L	N	O	Alnus glutinosa .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	*Carpinus Betulus .. .. .	Eng. ..	1	2	3	4		6				9
W	L	N	O	Corylus Avellana .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Quercus Robur <i>a. pedunculata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
				" <i>b. intermedia</i> .. .. .											
W	L	N	O	" <i>c. sessiliflora</i> .. .. .	Brit. ..		2	3	4	5	6	7	8	9	
W				<i>Castanea sativa</i> .. .. .		1	2	3	4			8			10
W	L	N	O	Fagus sylvatica .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Salix pentandra .. .. .	Scot. ..	1	2	3	4		6	7			10
W	L	N	O	" <i>fragilis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>b. decipiens</i> .. .. .			2	3	4		6		8		10
W	L	N	O	" <i>c. Russelliana</i> .. .. .		1					6		8		
W	L	N	O	" <i>alba</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. cœrulea</i> .. .. .						4		6		8	
W	L	N	O	" <i>c. vitellina</i> .. .. .						3	4	6		8	
L?				" <i>undulata</i> .. .. .											
W				" <i>triandra</i> .. .. .	Eng. ..		2		4	5	6			9	10
W				" <i>b. Hoffmanniana</i> .. .. .				3	4	5	6	7			
W	L	N	O	" <i>c. amygdalina</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W				" <i>purpurea</i> .. .. .											
W	L	N	O	" <i>b. Woolgariana</i> .. .. .	Eng. ..									8	
W				" <i>c. Lambertiana</i> .. .. .			2	3	4	5				8	9
W	L	N	O	" <i>rubra</i> .. .. .											
W				" <i>c. Helix</i> .. .. .	Brit. ..		2	3	4	5	6			8	9
W				" <i>b. Forbyana</i> .. .. .											
W	L	N	O	" <i>viminialis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W?				" <i>stipularis</i> .. .. .					4						
W	L	N	O	" <i>Smithiana</i> .. .. .	Eng. ..		2	3	4		6			8	9
W				" <i>ferruginea</i> .. .. .	Eng. ..		2				6				
W				" <i>rugosa</i> .. .. .			2	3	4	5	6			8	
W	L	N	O	" <i>acuminata</i> .. .. .	Eng. ..		2	3	4						
W	L	N	O	" <i>cinerea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>b. aquatica</i> .. .. .		1	2	3	4	5	6			8	9
W				" <i>c. oleifolia</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>aurita</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>caprea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>laurina</i> .. .. .	Scot. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>nigricans c. Forsteriana</i> .. .. .	Scot. ..				4					8	9
W				" <i>f. Damascena</i> .. .. .											8
W				" <i>ambigua</i> .. .. .	?		2								
W	L		O	" <i>repens</i> .. .. .	Brit. ..	1	2								
W	L			" <i>b. fusca</i> .. .. .		1	2								
W				" <i>d. ascendens</i> .. .. .											
W				" <i>f. incubacea</i> .. .. .											
W				" <i>f. argentea</i> .. .. .		1	2								
W		N	O	Populus <i>*alba</i> .. .. .	Eng. ..	1	2		3	4	5	6	7	8	
W	L	N	O	" <i>canescens</i> .. .. .	Eng. ..	1	2		4	5	6	7	8		
W	L	N	O	" <i>tremula</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>b. glabra</i> .. .. .		1	2	3	4						
W	L	N	O	" <i>nigra</i> .. .. .		1	2	3	4	5		7	8	9	
W	L	N	O	Empetrum nigrum .. .. .	Scot. ..	1									
W	L	N	O	Ceratophyllum aquaticum .. .. .	Eng. ..		2		4	5	6		8		10
W	L	N	O	Juniperus communis .. .. .					4						
W	L	N	O	" <i>Taxus baccata</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Pinus sylvestris</i> .. .. .	Scot. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Elodea canadensis</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	Hydrocharis Morsus-ranæ .. .. .											

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Stratiotes aloides .. .. .	Brit. ..	1	2	3	4	5	6		8	9	
W	L	N	O	Neottia Nidus-avis .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Listera ovata .. .. .	Eng. ..				4			7			
W	L	N	O	Spiranthes autumnalis .. .. .	Eng. ..									9	
W	L	N	O	Chephalanthra ensifolia .. .. .	Eng. ..										10
W	L	N	O	"    pallens .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	Epipactis latifolia .. .. .	Eng. ..		2						8	9	
W	L	N	O	"    media .. .. .	Germ...				4	5			8	9	
W	L	N	O	"    palustris .. .. .											
W	L	N	O	Orchis pyramidalis .. .. .											
W	L	N	O	"    militaris .. .. .											
W	L	N	O	"    Simia .. .. .											
W	L	N	O	"    ustulata .. .. .	Eng. ..	1	2		4	5	6	7	8	9	
W	L	N	O	"    Mascula .. .. .	Brit. ..	1	2	3	4		6	7	8	9	10
W	L	N	O	"    imcarnata .. .. .			2		4			7			
W	L	N	O	"    b. angustifolia .. .. .	Brit. ..	1	2		4			7	8	9	
W	L	N	O	"    latifolia .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    maculata .. .. .											
W	L	N	O	Aceras anthropophora .. .. .	Eng. ..	1			4	5			8		
W	L	N	O	Ophrys apifera .. .. .											
W	L	N	O	"    aranifera .. .. .											
W	L	N	O	"    muscifera .. .. .											
W	L	N	O	Hermidium monorchis .. .. .	Brit. ..		2		4	5			8	9	
W	L	N	O	Habenaria conopsea .. .. .	Brit. ..				4		6		8	9	
W	L	N	O	"    viridis .. .. .	Brit. ..				4						
W	L	N	O	"    bifolia .. .. .	Brit. ..	1	2		4	5			8	9	
W	L	N	O	"    chloroleuca .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Iris foetidissima .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    Pseudacorus .. .. .											
W	L	N	O	"    b. acoriformis .. .. .											
W	L	N	O	*Crocus nudiflorus .. .. .	Inter. ..				4						
W	L	N	O	Narcissus Pseudo-narcissus .. .. .	Eng. ..	1	2		4		6		8	9	
W	L	N	O	"    major .. .. .			2		4						
W	L	N	O	"    *biflorus .. .. .				3			6		8		
W	L	N	O	"    *poeticus .. .. .							6				
W	L	N	O	*Galanthus nivalis .. .. .		1	2	3	4	5	6			9	
W	L	N	O	Leucojum aestivum .. .. .					4						
W	L	N	O	"    vernum .. .. .											
W	L	N	O	Tamus communis .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	Ruscus aculeatus .. .. .											
W	L	N	O	Asparagus officinalis .. .. .					4						
W	L	N	O	Polygonatum multiflorum .. .. .	Eng. ..							7	8		
W	L	N	O	"    officinale .. .. .	Eng. ..	1					6				
W	L	N	O	Convallaria majalis .. .. .	Germ...	1	2	3	4	5	6		8	9	
W	L	N	O	Allium vineale .. .. .											
W	L	N	O	"    c. compactum .. .. .	Eng. ..				4	5	6	7	8	9	
W	L	N	O	"    oleraceum .. .. .	Germ...				4	5		7			
W	L	N	O	"    ursinum .. .. .	Brit. ..	1	2	3	4		5		8	9	
W	L	N	O	*Muscari racemosum .. .. .											
W	L	N	O	Scilla nutans .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    var. flore-albo .. .. .		1	2	3	4	5	6		8		
W	L	N	O	Ornithogalum nutans .. .. .		1				5					
W	L	N	O	"    umbellatum .. .. .					4			7			
W	L	N	O	Lilium Martagon .. .. .								6	7		
W	L	N	O	Fritillaria Meleagris .. .. .	Eng. ..			3	4				8		
W	L	N	O	*Tulipa sylvestris .. .. .		1	2				6				
W	L	N	O	Gagea fascicularis .. .. .	Inter. ..	1	2								
W	L	N	O	Colchicum autumnale .. .. .	Eng. ..	1	2				6	7	8	9	
W	L	N	O	Narthecium ossifragum .. .. .	Brit. ..	1	2								
W	L	N	O	Tofieldia palustris .. .. .											
W	L	N	O	Paris quadrifolia .. .. .	Brit. ..	1	2	3	4	5	6		8	9	
W	L	N	O	Juncus bufonius .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    b. fasciculatus .. .. .	Brit. ..	1	2								
W	L	N	O	"    squarrosus .. .. .	Brit. ..	1	2	3				6	7		
W	L	N	O	"    compressus .. .. .	Brit. ..					5					
W	L	N	O	"    Gerardi .. .. .	Brit. ..				3	4	5		7	8	9
W	L	N	O	"    glaucus .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    diffusus .. .. .	Eng. ..	1	2	3	4						
W	L	N	O	"    effusus .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    conglomeratus .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	"    supinus .. .. .	Brit. ..	1	2	3				6	7		

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	<i>Juncus obtusiflorus</i> .. .. .	Eng. ..					4	5	6		8	9		
W	L	N	O	" <i>lamprocarpus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>acutiflorus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	<i>Luzula Forsteri</i> .. .. .													
W	L	N	O	" <i>pilosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9			
W	L	N	O	" <i>maxima</i> .. .. .	Brit. ..	1	2	3	4		6		8	9			
W	L	N	O	" <i>campestris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>multiflora</i> .. .. .	Brit. ..	1	2	3	4		6	7	8	9			
W	L	N	O	" <i>δ. congesta</i> .. .. .		1	2	3	4		6	7	8	9			
W	L	N	O	<i>Typha latifolia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>δ. media</i> .. .. .						4	5						
W	L	N	O	" <i>angustifolia</i> .. .. .	Eng. ..	1			3	4	5	6		8	10		
W	L	N	O	<i>Sparganium ramosum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>neglectum</i> .. .. .					3				7	8			
W	L	N	O	" <i>simplex</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>minimum</i> .. .. .	Brit. ..		2	3	4		6						
W	L	N	O	" <i>natans</i> .. .. .													
W	L	N	O	<i>Arum maculatum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	* <i>Acorus Calamus</i> .. .. .	Eng. ..		2	3	4	5	6						
W	L	N	O	<i>Lemna trisulca</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>minor</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>gibba</i> .. .. .	Eng. ..	1	2	3	4	5	6		8	9			
W	L	N	O	" <i>polyrhiza</i> .. .. .	Eng. ..	1	2	3	4	5	6						
W	L	N	O	<i>Alisma Plantago</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>δ. lanceolatum</i> .. .. .			2	3	4	5	6	7	8				
W	L	N	O	" <i>ranunculoides</i> .. .. .	Brit. ..				3			7					
W	L	N	O	<i>Sagittaria sagittifolia</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8				
W	L	N	O	<i>Butomus umbellatus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	<i>Potamogeton palustre</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	<i>Potamogeton natans</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>polygonifolius</i> .. .. .	Brit. ..		2	3	4		6						
W	L	N	O	" <i>rufescens</i> .. .. .													
W	L	N	O	" <i>heterophyllus</i> .. .. .													
W	L	N	O	" <i>lucens</i> .. .. .	Eng. ..		2	3	4		6	7			10		
W	L	N	O	" <i>δ. acuminatus</i> .. .. .													
W	L	N	O	" <i>decipiens</i> .. .. .						4							
W	L	N	O	" <i>perlongus</i> .. .. .													
W	L	N	O	" <i>perfoliatus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>crispus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>δ. serratus</i> .. .. .					3			7		9			
W	L	N	O	" <i>densus</i> .. .. .	Eng. ..				3	4	5	6	7	8			
W	L	N	O	" <i>zosteræfolius</i> .. .. .	Eng. ..				2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>acutifolius</i> .. .. .	Germ. ..					4							
W	L	N	O?	" <i>obtusifolius</i> .. .. .	Eng. ..					4		6					
W	L	N	O	" <i>Friesii</i> .. .. .	Eng. ..	1				4	5	6		8	10		
W	L	N	O	" <i>pusillus</i> .. .. .	Brit. ..				2	3	4			8			
W	L	N	O	" <i>pectinatus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8		10		
W	L	N	O	" <i>flabellatus</i> .. .. .					2	3	4	5	6	7	8	9	
W	L	N	O	<i>Zannichellia palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>var. macrostemon</i> .. .. .			2		4					9			
W	L	N	O	" <i>repens</i> .. .. .													
W	L	N	O	<i>Heleocharis acicularis</i> .. .. .	Eng. ..	1	2	3	4	5	6		8				
W	L	N	O	" <i>palustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L	N	O	" <i>multicaulis</i> .. .. .	Brit. ..				2		4						
W	L	N	O	<i>Scirpus pauciflorus</i> .. .. .	Brit. ..	1						6					
W	L	N	O	" <i>cæspitosus</i> .. .. .	Brit. ..	1	2										
W	L	N	O	" <i>fluitans</i> .. .. .	Brit. ..	1	2					6	7				
W	L	N	O	" <i>setaceus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8				
W	L	N	O	" <i>lacustris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10		
W	L?	N	O	" <i>Tabernaemontani</i> .. .. .	Eng. ..					5							
W	L	N	O	" <i>carinatus</i> .. .. .													
W	L	N	O	" <i>maritimus</i> .. .. .	Brit. ..					5							
W	L	N	O	" <i>sylvaticus</i> .. .. .	Brit. ..	1	2	3	4	5	6		8	9	10		
W	L	N	O	" <i>Caricis</i> .. .. .	Eng. ..					4							
W	L	N	O	<i>Eriophorum vaginatum</i> .. .. .	Brit. ..	1	2	3					8				
W	L?	N	O	" <i>angustifolium</i> .. .. .	Brit. ..	1	2	3		5	6		8	9			
W	L?	N	O	" <i>latifolium</i> .. .. .													
W	L?	N	O	<i>Rhynchospora alba</i> .. .. .	Brit. ..	1	2			5							
W	L?	N	O	<i>Sclænus nigricans</i> .. .. .	Brit. ..	1	2										
W?	L?	N?	O	<i>Cladium germanicum</i> .. .. .	Eng. ..	1											
W	L	N	O	<i>Carex dioica</i> .. .. .	Scot. ..	1					6						
W	L	N	O	" <i>pulicaris</i> .. .. .	Brit. ..	1	2		4	5		7					

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Carex disticha</i> .. .. .	Eng. ..	1	2	3	4		6		8	9	
W	L			" <i>teretiuscula</i> .. .. .	Brit. ..										
W				" <i>δ. Ehrhartiana</i> .. .. .		1									
W	L	N	O	" <i>paniculata</i> .. .. .	Brit. ..	1	2	3	4	5	6		8		10
W	L	N	O	" <i>vulpina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>muricata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. pseudo-divulsa</i> .. .. .								8			
W	L	N	O	" <i>divulsa</i> .. .. .	Eng. ..		2		4	5	6	7	8	9	
W	L	N	O	" <i>echinata</i> .. .. .	Brit. ..	1	2		4		6		8	9	
W	L	N	O	" <i>remota</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>axillaris</i> .. .. .	Eng. ..	1	2				6				
W				" <i>?Boeninghausiana</i> .. .. .	Germ. ..						6?				
W				" <i>elongata</i> .. .. .	Eng. ..		2								
W				" <i>curta</i> .. .. .	Brit. ..	1	2								
W	L	N	O	" <i>ovalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W		N?		" <i>δ. bibracteata</i> .. .. .											
W	L	N	O	" <i>stricta</i> .. .. .	Eng. ..						6			9	
W	L	N	O	" <i>acuta</i> .. .. .	Brit. ..		2	3	4	5	6		8	9	
W	L	N	O	" <i>Goodenowii</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. juncella</i> .. .. .		1					6			9	
W	L	N	O	" <i>glauca</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. Micheliana</i> .. .. .							6				
W	L	N	O	" <i>pilulifera</i> .. .. .	Brit. ..	1	2		4			7	8	9	
W	L	N	O	" <i>præcox</i> .. .. .	Brit. ..	1	2	3	4			6	7	8	9
W	L	N	O	" <i>pallescens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>panicea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>pendula</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	? O?		" <i>strigosa</i> .. .. .											
W	L	N	O	" <i>sylvatica</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>lævigata</i> .. .. .	Brit. ..	1				4	5				
W	L	N	O	" <i>binervis</i> .. .. .	Brit. ..	1	2	3	4			6	7	8	9
W	L	N	O	" <i>distans</i> .. .. .	Brit. ..					4	5		7		
W	L	N	O	" <i>fulva</i> .. .. .	Brit. ..	1						6	7		9
W	L	N	O	" <i>flava</i> .. .. .	Brit. ..	1	2			4	5			8	9
W	L			" <i>δ. minor</i> .. .. .		1	2	3	4			6	7	8	9
W				" <i>filiformis</i> .. .. .											
W	L	N	O	" <i>hirta</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Pseudo-cyperus</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8		
W	L	N	O	" <i>paludosa</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. Kochiana</i> .. .. .		1	2	3	4	5			8	9	
W	L	N	O	" <i>riparia</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>rostrata</i> .. .. .	Brit. ..	1	2	3	4			6	7		10
W	L	N	O	" <i>vesicaria</i> .. .. .	Brit. ..	1	2			4	5	6	7	8	
W				<i>Panicum sanguinale</i> .. .. .							6				
W				" <i>Crus-galli</i> .. .. .							6				
W	L	N	O	<i>Setaria viridis</i> .. .. .	Germ. ..					4	5	6			
W	L	N	O	<i>Phalaris canariensis</i> .. .. .		1				4	5	6			
W	L	N	O	" <i>arundinacea</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Anthoxanthum odoratum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>Puelii</i> .. .. .						4					
W	L	N	O	<i>Alopecurus agrestis</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>fulvus</i> .. .. .	Eng. ..	1	2			4			6	8	10
W	L	N	O	" <i>geniculatus</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pratensis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Milium effusum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Phleum pratense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. nodosum</i> .. .. .			2			4	5	6	7	9	10
W				" <i>c. majus</i> .. .. .						4	5		8		
W	L	N	O	<i>Agrostis canina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. mutica</i> .. .. .											
W	L	N	O	" <i>alba</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. stolonifera</i> .. .. .						4			8		
W		N	O	" <i>nigra</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>vulgaris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>δ. pumila</i> .. .. .		1	2			4			6	8	
W				<i>Polypogon monspeliensis</i> .. .. .							6				
W	L	N	O	<i>Calamagrostis epigeios</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W				" <i>lanceolata</i> .. .. .	Eng. ..		2	3			5	6			
W				<i>Gastridium lendigerum</i> .. .. .	Eng. ..					4			8	9	
W				<i>Apera Spica-venti</i> .. .. .						4					
W	L	N	O	<i>Aira caryophylla</i> .. .. .	Brit. ..	1	2	3	4			6		8	9
W				" <i>δ. aggregata</i> .. .. .		1	2								

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Aira præcox</i> .. ..	Brit. ..	1	2	3	4		6		8	9	
W	L	N	O	<i>Deschampsia cæspitosa</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>flexuosa</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Holcus mollis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>lanatus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Trisetum flavescens</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Avena pubescens</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pratensis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>strigosa</i> .. ..		2	4						7	9	
W	L	N	O	" <i>fatua a. pilosissima</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. intermedia</i> .. ..			4	5				7	8	9	10
W	L	N	O	" <i>c. pilosa</i> .. ..				4	5				8	9	
W	L	N	O	<i>Arrhenatherum avenaceum</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. nodosum</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Sieglingia decumbens</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Phragmites communis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Cynosurus cristatus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>echinatus</i> .. ..		1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Koeleria cristata</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Molinia cærulea</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Catabrosa aquatica</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Melica uniflora</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>nutans</i> .. ..		1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Dactylis glomerata</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Briza media</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Poa annua</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>nemoralis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>δ. angustifolia</i> .. ..		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>compressa</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. polynoda</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sudetica</i> .. ..		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>pratensis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. angustifolia</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. subcærulea</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. strigosa</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. arida</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>trivialis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. Koeleri</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Glyceria fluitans</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>plicata</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. pedicellata</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. declinata</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>aquatica</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>distans</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Festuca rigida</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>Myurus</i> .. ..	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sciurioides</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>ovina</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. capillata</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. major</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>d. glauca</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>rubra</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. longi-aristata</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. fallax</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. heterophylla</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>var. trachyphylla</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arundinacea</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>elatior</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. loliacea</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Bromus giganteus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>asper</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>erectus</i> .. ..	Germ...	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>villosus</i> ? .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O?	" <i>madridentis</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>maximus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sterilis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>secalinus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. velutinus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>racemosus</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>commutatus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. pubescens</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>c. multiflorus</i> .. ..		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>mollis</i> .. ..	Brit. ..	1	2	3	4	5	6	7	8	9	10

War.	Leic.	Nort.	Oxon.	Name.	Type.	1	2	3	4	5	6	7	8	9	10
W			O	<i>Bromus δ. glabrescens</i> .. .. .		1	2	3	4	5	6	7	8	9	10
			O	<i>arvensis</i> .. .. .											
W	L	N	O	<i>Brachypodium sylvaticum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>pinnatum</i> .. .. .	Germ...				4	5	7	8	9		
W				" <i>δ. pubescens</i> .. .. .					4						
W	L	N	O	<i>Lolium perenne</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W				" <i>c. multiflorum</i> .. .. .		1									
W			O	" <i>d. aristatum</i> .. .. .						5					
W				" <i>x. festucaceum</i> .. .. .				3							
W				" <i>e. italicum</i> .. .. .		1	2	3	4			7		9	10
W			O	" <i>temulentum</i> .. .. .	Brit. ..						6				
W			O	" <i>δ. arvense</i> .. .. .							6				
W	L	N	O	<i>Agropyron caninum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>repens</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			O	" <i>δ. barbatum</i> .. .. .					3	5		7	8	9	10
W				" <i>c. obtusum</i> .. .. .					4	5	6				10
			O	<i>Hordeum sylvaticum</i> .. .. .											
W	L	N	O	" <i>pratense</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>murinum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Nardus stricta</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Pteris aquilina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Lomaria Spicant</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Asplenium Adiantum-nigrum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>Trichomanes</i> .. .. .	Brit. ..				2	3	4	6		8	10
W	L	N	O	" <i>Ruta-muraria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Athyrium Filix-femina</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			O	" <i>δ. erectum</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W			O	" <i>c. molle</i> .. .. .							3				
W			O	<i>Ceterach officinarum</i> .. .. .	Eng. ..				3	4	5	6	7	8	
W	L	N	O	<i>Scolopendrium vulgare</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Cystopteris fragilis</i> .. .. .	Brit. ..				4						
W	L	N	O	<i>Polystichum lobatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>δ. aculeatum</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>angulare</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N?	O	<i>Lastræa Thelypteris</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>Oreopteris</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>Filix-mas</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W			O	" <i>δ. affinis</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>c. paleacea</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>spinulosa</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>dilatata</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	<i>Polypodium vulgare</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
			O	" <i>Robertianum</i> .. .. .											
W	L	N	O	<i>Osmunda regalis</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Ophioglossum vulgatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Botrychium Lunaria</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Equisetum maximum</i> .. .. .	Eng. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>arvense</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>sylvaticum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>palustre</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W			O	" <i>var. polystachion</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>limosum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	10
W	L	N	O	" <i>δ. fluviatile</i> .. .. .		1	2	3	4	5	6	7	8	9	
W?	L?		O	" <i>hyemale</i> .. .. .	Scot. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Lycopodium inundatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>Selago</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>clavatum</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>complanatum</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	<i>Pilularia globulifera</i> .. .. .	Brit. ..	1	2	3	4	5	6	7	8	9	
W			O	<i>Chara fragilis</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>c. capillacea</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>d. Hedwigii</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>contraria</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>hispida</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>vulgaris</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>δ. longibracteata</i> .. .. .		1	2	3	4	5	6	7	8	9	10
W			O	" <i>c. papillata</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>var. refracta</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>f. crassicaulis</i> .. .. .		1	2	3	4	5	6	7	8	9	
W?			O	<i>Nitella translucens</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>flexilis</i> .. .. .		1	2	3	4	5	6	7	8	9	
W	L	N	O	" <i>opaca</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	<i>Tolypella intricata</i> .. .. .		1	2	3	4	5	6	7	8	9	
W			O	" <i>glomerata</i> .. .. .		1	2	3	4	5	6	7	8	9	

The total species and varieties for each basin are as follows :—

1	2	3	4	5	6	7	8	9	10
Tame.	Blythe.	Anker.	Avon.	Leam.	Sow.	Stour.	Alne.	Arrow.	Cherwell.
826	882	732	1038	744	850	703	818	738	510

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The left-hand columns of this summary represent the comparative occurrence of the various species and varieties in the four counties named at the top of the columns, viz., Warwick, Leicester, Northampton, and Oxford. When the initial letter is printed in italics the plant is considered merely casual ; a note of interrogation (?) following the initial letter indicates doubt as to the correctness of the record ; and an asterisk (\*) indicates that in the writer's opinion the plant is an alien. When the Latin name of the plant is printed in italics, plants so marked are considered casual in all the four counties. The lower case letters, *a*, *b*, *c*, &c., in italics, before the Latin name, indicate a variety. The abbreviations immediately following the scientific names are—Brit. for British, Eng. for English, Scot. for Scottish, Inter. for Intermediate, High. for Highland, Germ. for Germanic, Atlan. for Atlantic, and Local, and indicate that these plants belong to those various types of distribution. These types are described on page 466.

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A SKETCH OF THE PROGRESS  
OF  
BOTANICAL INVESTIGATION  
IN  
WARWICKSHIRE.

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Of the earlier botanists, Ray appears to have been the first to give any records bearing on the botany of Warwickshire; an incidental notice of a plant, however, occurs in both Gerarde and Parkinson. This is "*Viola marianus*, Coventry Bells. They grow in woods, mountains, and dark valleys, and under hedges among the bushes about Coventry, where they are very plentiful abroad in the fields, and are there called Coventry Bells."—*Gerarde Em.*, 448. In Parkinson's "*Paradisus Terrestris*" we have the following contradiction:—"The Coventry Bells doe not grow wilde in any of the parts about Coventry, as I am credibly informed by a faithful apothecary dwelling there, called Master Brian Bull, but are nursed in the gardens with them as in other places."—*Paradisus*. 357. This plant is now considered to be *C. media*, and is not a British species. Ray, however, in his "*Catalogus*," gives several records, principally from Middleton and its neighbourhood. This eminent botanist was born at Black Notley, near Braintree, in Essex, November, 29th, 1628, and received the rudiments of his education in the Grammar School, Braintree. When about sixteen he was entered as a sizar of Catherine Hall, Cambridge. At twenty-one he took his B.A. degree, and was elected Junior Fellow of Trinity College, and having taken his M.A. degree he became Senior Fellow. At twenty-three he was chosen Greek Lecturer of the College, and on October 1st, 1653, he was made Mathematical Lecturer, and afterwards, in 1655, Humanity Reader. In 1657 he became Prælector Primarius; in 1658 Junior Dean, and was twice College Steward, being sworn into that office in 1659 and 1660. During his residence at Cambridge, University he was tutor to several distinguished men, among others Mr. Francis Willughby, of Middleton Hall, Warwickshire, with whom he formed a lifetime friendship, and at whose mansion he resided several years. From his correspondence he appears to have resided there from May, 1669, to 1675, and during that time he married Margaret Oakley, who also resided with the family at Middleton Hall. He was married in the Parish Church of Middleton, June 5th, 1673, being then in his forty-fifth year, his bride being about twenty. She bore him three daughters, who, with their mother, survived him.

The first botanical publications of John Ray were merely alphabetical catalogues of plants; such as his "*Catalogus Plantarum circa Cantabrigiam Nascentium*," a duodecimo volume of 103 pages, published in 1660 and followed in 1663 by an appendix of thirteen pages. On November 7th, 1667, he was elected a Fellow of the Royal Society. In 1669 he published, in the "*Philosophical Transactions*," Vol. 4, "An Account of Experiments concerning the Motion of Sap in Trees, made by

Mr. Willughby and Mr. Wray," these experiments having evidently been made at Middleton; and, in a letter to Mr. Lister, dated Middleton, November 15th, 1669, we have the first notice of Warwickshire plants. These are:—

*Erica baccifera nigra*, *Park.*, (*Empetrum nigrum*, *Linn.*). *Alchemilla vulgaris*; *Palustria thymifolius* (*Vaccinium Oxycoccus*, *Linn.*). *Bistorta*, &c. (*Polygonum Bistorta*).—"Correspondence of Ray," pp. 44-46. These plants are afterwards recorded in subsequent works.

In 1670 he published his "Catalogus Plantarum Angliæ," an alphabetical list of British plants, of 358 pages. In this we have the following from Warwickshire:—

*Astragalus sylvaticus*, *Ger.*, (*Orobis tuberosus*, *L.*). *Cyperus gramineus*, *J.B.*, (*Scirpus sylvaticus*, *L.*). *Cyperus longus inodorus sylvestris*, *Ger.*, (*Cladium germanicum*, *Schrad.*). *Equisetum omnium minimum tenuifolium*, *Park.*, (*Equisetum sylvaticum*, *L.*). *Festuca altera*, *Dod.*, (*Bromus secalinus*, *L.*). *Filix florida* sive *Osmunda regalis*, *Ger.*, (*Osmunda regalis*, *L.*). *Gramen cyperoides polystachion flavicans spicis brevibus prope summitatem caulis*, *Ray*, (*Carex pallescens*, *L.*). *Gramen cyperoides polystachion spicis teretibus erectis*, *Ray*, (*Carex rostrata*, *Stokes*). *Gramen cyp. elegans spica composita*, *Ray*, (*Carex curta*, *Good.*). *Gramen cyperoides pulicare*, *Ray*, (*Carex pulicaris*, *L.*). *Gramen sylvaticum*, *Tabern.*, (*Carex echinata*, *Murr.*). *Hieracium parvum in arenosis nascens feminum pappi densius radiatus*, *Ray*, (*Hypochaeris glabra*, *L.*). *Juncus lævis panicula glomerata nigricante*, *C.L.*, (*Schæenus nigricans*, *Linn.*). *Juncus parvus montanus cum parvis capitulis luteus*, *J.B.*, (*Scirpus cæspitosus*, *L.*). *Lunaria minor*, *Ger.-Park.*, (*Botrychium Lunaria*, *Sw.*). *Narcissus sylvestris pallidus calyce luteo*, *C.B.*, (*Narcissus pseudo-narcissus*, *L.*). *Nasturtium aquaticum amarum*, *Park.*, (*Cardamine amara*, *L.*). *Ranunculus sive Polyanthemum aquatili albo affine Millifolium Maratrophylum fluitans*, *J.B.*, (*Ranunculus fluitans*, *L.*). *Thlaspi Dioscorides*, *Ger.*, (*Thlaspi arvensis*, *L.*). *Trifolium nodiflorum glomerulis mollioribus et rotundioribus, semine magno*, *Ray*, (*Trifolium striatum*). *Turritis*, *Ger.*, *vulgatior*, *Park.*, (*Turritis glabra*). *Typha palustris media*, *J.B.*, (*Typha angustifolia*, *L.*). *Vaccinia rubra*, *Ger.*, (*Vaccinium Vitis Idæa*, *L.*).

Between 1670 and 1677 Ray published several works, including volumes of travel, catalogues of English birds and fishes, and a collection of English words. In 1677 a second edition of the "Catalogus" was published, and in 1682 the "Methodus Plantarum." In this his principles of arrangement are chiefly derived from the fruit, although he still adopted the ancient primary division of plants into trees, shrubs, and herbs. He first applied his new system to practical use in the "Historia Plantarum," a fine folio work in three volumes. In this work the following records from Warwickshire are additional:—

*Lapathum folio acuto flore aureo*, *C.B.*, (*Rumex maritimus*, *L.*). *Viscum* (*Viscum album*, *L.*). *Filix fœmina* (*Athyrium Filix fœmina*, *Roth.*). *Pteris aquilina*, *Linn.* *Rubus Idæus*, *L.* *Acer campestre*, *Linn.*

In 1690 was published his greatest botanical work, "Synopsis Methodica Stirpium Britannicarum," an octavo work of 310 pages. Of this a second edition, which is the best and last edition published during the lifetime of Ray, came out in 1696. In this edition there are several records of Warwickshire plants, most of them previously enumerated in the "Catalogus." The following are, however, additional as records:—

*Equisetum nudum* (*E. hyemale*, *L.*). *Filix maris vulgaris varietas* (*Lastrea Oreopteris*, *Presl.*). *Cardamine impatiens altera hirsuta* (*C. hirsutum*, *L.*). *Solanum lethale*, *Park.*, (*Atropa Belladonna*, *Linn.*). *Ribes nigrum vulgo dictum folio olente*, *J.B.*, (*Ribes nigrum*, *L.*).

In 1724 a third edition of the "Synopsis" was published by Dillenius. In this there were no new records. Beside these great botanical works, sufficient of themselves to give him lasting fame, and indicating close observation and great original thought, he found time to write his beautiful work, "The Wisdom of God in the Creation," worthy of careful reading; an epitome of knowledge and religious thought. He also found time to revise a translation of the curious volume, "Rauwolf's Travels," and other tracts, together with a catalogue of Grecian, Syrian, Egyptian, and Cretan plants.

Following this, in 1694, he published the "Stirpium Europeanarum extra Britannias nascentium Sylloge." In this volume he gives, in addition to his own discoveries during his travels on the Continent, records from Clusius, Bauhin, Columna, and others.

In 1695 he communicated to Bishop Edw. Gibson's edition of "Camden's Britannia" the catalogues of plants for each county, under the heading of "More Rare Plants." In addition to all this botanical work he found time to publish voluminous works on birds, fishes, and insects, and to carry on a learned correspondence with the scientific leaders of the day, both British and foreign. He died at Black Notley, January the 17th, 1704-5, and was buried in the church of that parish.

In Gibson's edition of Camden, Vol. I., pp. 515-16. a list of fourteen plants is supplied by Ray, under the title of "More Rare Plants Growing Wild in Warwickshire." These, however, had already been given in one or other of his works.

The next botanical work of importance is the third edition of "Ray's Synopsis," published by Dillenius in 1724. This has already been mentioned; and following this is "Hudson's Flora Anglica," the first edition of which appeared in 1772, the second in 1778, and the third in 1798—the third being merely a stereotyped reprint of the second edition. In this work there are several records of Warwickshire plants, but, with one exception, all are borrowed from Ray. This exception is *Malva alcea*, L., which is not a native of Britain.

In 1792 Gough published an edition of "Camden's Britannia," with Ray's lists of plants, but these were merely reprints from Gibson.

The next author who adds to our knowledge of Warwickshire botany is William Withering, M.D., F.R.S. This eminent man was born in 1741, at Wellington, in Shropshire, where his father practised as an apothecary. He was chiefly educated by the Rev. Henry Wood, of Ercall. He afterwards studied at Edinburgh, where he took his degree of M.D. in 1766. He first practised as a physician at Stafford, and from the hills and valleys of the Trent obtained much of the material for his great work on botany. In 1775 he removed to Birmingham, and in a few years became the leading physician. In 1786 Dr. Withering went to live at Edgbaston Hall, and from the grounds and neighbourhood around there he obtained many interesting records, more especially among the fungi. The chief objects of his leisure hours were chemistry and botany. He was a member of the famed Lunar Society, which included amongst its members the foremost intellects of Birmingham. For thirteen years he was physician to the General Hospital—1779 to 1792. From early life Dr. Withering was delicate, and in 1793 he became so debilitated by pulmonic disease that he thought it desirable to pass the winters of 1793 and 1794 in Lisbon. Whilst there, at the request of the Court of Portugal, he analysed the hot mineral waters of Caldas du Rainha, of which he published an account in 1795. After his return from his last voyage to Lisbon, he removed from Edgbaston to a house he had purchased near Birmingham, formerly occupied by Dr. Priestley, named The Larches; here he died in 1799, and was buried in the old church at Edgbaston. His principal work was "A Systematic Arrangement of British Plants," a classical work on the British Flora, in which for the first time our plants were described in the language of the people, and gave to all his fellow-countrymen who could read the opportunity of studying the flora of their country. That this work was highly estimated is shown by the fact that within twenty years three editions were published; the first in two volumes, in 1776; the second in three volumes, in 1787; the third in four volumes, in 1796. These were all that were

published during his lifetime, and the third edition is usually considered the best. In 1801 a fourth edition was published by his son, who also edited the fifth edition, published in 1812, the sixth edition in 1818, and the seventh edition in 1830.

Beside his "Systematic Arrangement," Withering also published "An Account of Scarlet Fever and Sore Throat," 1779; "An Account of the Foxglove and Some of its Medical Uses," 1785; and various papers in the Philosophical Transactions.

The first edition of the "Arrangement" contains but few records; but in the second edition, edited by Jonathan Stokes, M.D., several plants are recorded that are additions to the records of Ray. These are:—

*Nymphæa alba*, *Sisymbrium amphibium* (*Nasturtium*), *Viola palustris*, *Sagina nodosa*, *Hypericum elodes*, *Ornithopus perpusillus*, *Drosera rotundifolia*, *Campanula patula*, *Erica vulgaris*, downy leaved (*Calluna Erica* var. *b. incana*), *Sambucus nigra*, *Anchusa sempervirens*, *Veronica Anagallis*, *Utricularia vulgaris*, *Mentha Pulegium*, *Galeobdolon luteum* (*Lamium Galeobdolon*), *Rumex Hydrolapathum*, *Polygonum aviculare*, *Narthecium ossifragum*, *Potamogeton paludosa* (*P. polygonifolium*), *Acorus*, *Schœnus albus* (*Rhynchospora alba*), *Eriophorus vaginatus*, *E. polystachion*, *Polypodium cristatum* (*Lastrea spinulosa*).

In this edition Dr. Stokes also records, on his own responsibility, several new plants, such as:—

*Nardus stricta*, *Montia fontana*, *Potamogeton lucens*, *Butomus umbellatus*, *Carduus acanthoides*, *Gnaphalium sylvaticum*.

Besides editing this edition of the "Arrangement," Dr. Stokes was the author of "A Botanical Materia Medica," and "Botanical Commentary," of which latter only the first volume was published. Dr. Stokes was born in 1755, and died at Derby, April 30th, 1831, aged 76.

In the fourth edition, published in 1801, and revised and enlarged by William Withering, son of the author, we have some few additional records, such as:—

*Ranunculus acris*, *Hypericum pulchrum*, *Sambucus Ebulus*, *Adoxa Moschatellina*, *Comarum palustre*, *Saxifraga granulata*, *Cichorium Intybus*, *Inula pulicaria* (*Pulicaria vulgaris*), *Valeriana dioica*, *Melampyrum pratense*, *Veronica scutellata*, *Salvia verbenaca*, *Mentha piperita*, *M. aquatica*, *Galeopsis cannabina*, *G. Ladanum*, *Thymus Calamintha* (*Calamintha officinalis*), *Scutellaria galericulata*, *Buxus sempervirens*, *Ulmus glabra*, *Allium ursinum*, *Triglochin palustre*, *Epipactis latifolia*, *Carex vesicaria*, *Alopecurus fulvus*, *Aira flexuosa* (*Deschampsia*), *Aira aquatica* (*Catabrosa*), *Festuca bromoides* (*F. sciurioides*), *Blechnum boreale*, *Polystichum aculeatum*, *Chara flexilis*.

In the fifth edition the only new records are *Parnassia palustris* and *Lonicera Xylosteum*; in the sixth, *Cenanthe peucedanifolia*; and in the seventh and last edition, *Viburnum Lantana*. In this edition there are many other records copied from Ray, Purton, and other preceding botanists.

In 1805 Turner and Dillwyn published their "Botanist's Guide through England and Wales," their records from Warwickshire being obtained from Ray, Hudson, Withering, and eminent botanists then living. The only records in this compilation that are additions to previous knowledge are those of the Countess of Aylesford. This ardent and accomplished botanist, who was the eldest daughter of Thomas Thynne, first Marquis of Bath, was born about 1760, and married, in 1781, Heneage Finch, Marquis of Aylesford. Soon after settling in Warwickshire she appears to have taken a deep interest in the botany of the district adjacent to Packington, and to have been in communication with the more eminent Warwickshire botanists, such as the Rev. W. T. Bree, Purton, and, as Withering records many of his fungi from Packington Park, doubtless with that accomplished botanist also. Her interest in botanical science seems to have extended over a long period—from 1784

to 1816—and to have included, not only Phanerogams, but also Fungi, Mosses, Hepatics, Fuci, and Algæ. Her study of these plants would appear to have been most laborious, as during her life she made upwards of 2,830 beautifully executed water-colour drawings, embracing the wide field of study above mentioned. These were mounted and bound in twenty-seven folio volumes. All were carefully named and indexed, and throughout the volumes are constant references to the most eminent authorities, such as Curtis, Decandolle, Hooker, Jacquin, and others. The execution of this work must have cost an enormous amount of labour and patience. She died in 1831. Her records to the "Botanist's Guide" are as follows:—

*Dipsacus pilosus*; *Rhamnus catharticus*; *Cuscuta europæa*; *Bupleurum rotundifolium*; *Myosurus minimus*; *Galanthus nivalis*; *Paris quadrifolia*; *Scutellaria minor*; *Melampyrum arvense* (probably *M. pratense* was intended); *Limosella aquatica*; *Iberis nudicaulis* (*Teesdalia*); *Geranium pratense*; *Hypericum dubium*; *Carduus pratensis*; *Sparganium natans* (*S. affine*); *Carex pendula*; *Littorella lacustris*; *Myriophyllum verticillatum*; *Lycopodium inundatum*. The correctness of many of her records I have myself verified within recent years.

In the year 1817 an abridged edition of "Dugdale's Warwickshire" was published to which Mr. William Groves Perry, of Warwick, contributed a list of Warwickshire plants, under the heading of "A Select List of Plants found in Warwickshire," by W. G. Perry, of the Museum, Leamington. Mr. Perry was born in Warwick in the year 1796, and appears to have been imbued with a love of botany early in life, notes of his, made in 1812, having come under my notice. His studies appear to have been confined exclusively to the flowering plants, and his attention chiefly given to that portion of the county contiguous to Warwick. Occasional journeys were, however, made to Alcester, Coleshill, and other more distant portions of the county. In 1820 he published a small octavo work, "Plantæ Varvicenses Selectæ, or Botanist's Guide through the County of Warwick." The classification and nomenclature were those of Smith in the third edition of his "Compendium Floræ Britannicæ," and it was compiled principally from Ray, Hudson, Withering, Purton, Turner and Dillwyn, with many of the author's own notes. Mr. Perry was also an early contributor to "Loudon's Magazine of Natural History," his notes from Warwickshire being mainly on white and other varieties of some of the more common plants. About 1840 Mr. Perry published a single sheet under the heading of "Remarkable Plants observed growing spontaneously near Leamington and Warwick," which is a record of a large number of the more rare or local plants of the county. He was a Fellow of the Botanical Society of Edinburgh, and for many years secretary of the Warwickshire Natural History Society; and, beside being a truly enthusiastic botanist, he was also an able linguist, well skilled in mathematics, and an accomplished musician. During his life Mr. Perry obtained, from various sources, a valuable collection of plants from all parts of the Kingdom; the more interesting to Warwickshire botanists being his extensive herbarium of Warwickshire plants. To this, in addition to his own collection, many local botanists also contributed, such as W. Cheshire, Thomas Cross, Thomas Kirk, and Henry Bromwich. The whole of his herbarium was, at his death, acquired by the authorities of the Warwick Museum. Mr. Perry was a very amiable man, and always ready to lend a helping hand to other and less favoured students of nature. He died at Warwick, March the 25th, 1863, aged 67. In the select list of plants contributed to "Dugdale's Warwickshire," the following are additional to former records:—

*Allium oleraceum*; *Anemone nemorosa*; *Antirrhinum Cymbalaria* (*Linaria*); *A. Linaria* (*Linaria vulgaris*); *Apargia hispida*; *Berberis vulgaris*; *Betonica officinalis*; *Bidens cernua*; *Campanula Trachelium*; *C. glomerata*; *Carduus nutans*; *C. marianus*; *Carlina vulgaris*; *Chlora perfoliata* (*Blackstonia*); *Chrysosplenium alternifolium*; *Cistus Helianthemum*; *Cnicus erio-phorus*; *C. acaulis*; *Conyza squarrosa*; *Cotyledon Umbilicus*; *Crocus*

nudiflorus; *Cynoglossum sylvaticum*; *Daphne Laureola*; *Dianthus Armeria*; *Dipsacus sylvestris*; *Eupatorium cannabinum*; *Euphorbia exigua*; *Fritillaria Meleagris*; *Fumaria lutea*; *F. claviculata*; *Galium cruciatum*; *G. saxatile*; *G. uliginosum*; *Genista tinctoria*; *Geranium lucidum*; *G. columbinum*; *Hieracium umbellatum*; *Humulus Lupulus*; *Hypericum humifusum*; *H. hirsutum*; *Ligustrum vulgare*; *Lamium amplexicaule*; *Lathyrus sylvestris*; *Linum catharticum*; *Listera ovata*; *Lysimachia nummularia*; *Lythrum Salicaria*; *Medicago maculata*; *Neottia spiralis*; *Nepeta Cataria*; *Orchis bifolia*; *O. pyramidalis*; *Ornithogallum umbellatum*; *Orobanche major*; *Oxalis Acetosella*; *Pyrus Malus*; *Prenanthes muralis*; *Reseda Luteola*; *Rosa spinosissima*; *Sagittaria sagittifolia*; *Sanguisorba officinalis*; *Saxifraga tridactylites*; *Scolopendrium vulgare*; *Senecio sylvaticus*; *Sisymbrium terrestre* (*Nasturtium palustre*); *Solidago Virgaurea*; *Sonchus arvensis*; *Tanacetum vulgare*; *Teucrium Scorodonia*; *Thymus Acinos*; *Tormentilla reptans*; *\*Valeriana rubra*; *Verbascum nigrum*; *Verbena officinale*; *Vicia Cracca*.

In the early part of 1817 Purton issued the first two volumes of "The Midland Flora," which, as was not unfrequent in those times, has a somewhat long title, "A Botanical Description of British Plants in the Midland Counties, particularly of those in the neighbourhood of Alcester, with Occasional Notes and Observations, to which is prefixed a short Introduction to the Study of Botany and to the Knowledge of the principal Natural Orders. By T. Purton, Surgeon, Alcester." This work, which was founded on the Linnean system, has been so long before the public as to become historic. It is very wide in its range, embracing the whole field of systematic botany from the Phanerogam to the, at that time, little known or studied, Algæ. The frequent notes and observations which are scattered through these volumes add much to their charm, and bespeak a good personal knowledge of the plants described. The author was evidently well acquainted with the Flowering Plants, and eminent in his knowledge of the Fungi; but of the Mosses and other Cryptogamous Plants his personal acquaintance appears to have been limited.

Mr. Purton was born at Endon Burnell, near Bridgnorth, Shropshire, May 10th, 1768, being the youngest of eight children. He was educated, first, at a preparatory school at Alveley, near Bridgnorth, afterwards at a school at Downton, near Shrewsbury. From this place he went to reside as a pupil with Mr. Bloxam, Surgeon, of Alcester, whose daughter Anne he afterwards married. Having served the usual time he removed to London, where he practised for four years; in 1793 he returned to Alcester, and entered into partnership with Mr. Bloxam. Here he remained till 1827. He afterwards removed to the house which had been occupied by his father-in-law, where he lived till 1831. After a brief visit to his son at Hords Park, Bridgnorth, he returned again to Alcester, where he died, after a short illness, April 29th, 1833, aged 65.

Mr. Purton was always a literary student, devoting his early days to astronomy, but about 1805 he commenced the study of botany. This study he soon found most congenial, and in a neighbouring clergyman, the Rev. W. S. Rufford, whose name constantly appears in the "Midland Flora," he found an esteemed friend and able coadjutor. Mr. Rufford possessed a fine herbarium, which was very useful to Purton during the early days of study. Purton possessed an excellent botanical library, and also a very extensive herbarium, comprising flowering plants, lichens, and fungi; this was afterwards consigned to the Worcester Natural History Society. He was evidently very highly esteemed by the prominent botanists of that time, numbering amongst his friends, Sowerby, Sir James Edward Smith, Drs. Hooker and Greville, Dr. Williams, Regius Professor of Oxford, Baxter, the Rev. W. Bree, and his eminent son, the Rev. W. T. Bree. His classical work, "The Midland Flora," is arranged after the Linnean system. The number of plants described in the first two volumes is 1,171 species, all found in the Midland Counties; the third volume published in 1821, contains 591 species in addition, making a total of 1,664. Unfortunately, Purton rarely gives stations for the more common plants, so that I

have only accepted as undoubted Warwickshire plants those he has assigned to some one or other Warwickshire locality. Of these the following are additional to former records :—

*Veronica officinalis*; †*Circæa alpina*; †*Iris foetidissima*; *Milium effusum*; *Aira caryophyllæ*; *Melica uniflora*; *Melica* (*Molinia*) *cærulea*; *Bromus giganteus*; *Poa* (*Festuca*) *rigida*; *Poa* (*Triodia*) *decumbens*; *Festuca* (*Brachypodium*) *pinnata*; *F.* (*Brachypodium*) *sylvatica*; *Plantago Coronopus*; *Galium tricornæ*; *Asperula odorata*; *Potamogeton densus*; *Symphytum officinale*; *Echium vulgare*; \**Borago officinalis*; *Lithospermum officinale*; *Anagallis cærulea*; *A. tenella*; †*Campanula hybrida*; *Samolus Valerandi*; *Lysimachia vulgaris*; *Menyanthes trifoliata*; \**Datura Stramonium*; *Hyoscyamus officinalis*; *Rhamnus Frangula*; *Euonymus europæus*; \**Vinca major*; *V. minor*; *Ulmus montana*; *Gentiana Amarella*; *Enanthe Phellandrium*; *Sium angustifolium*; *Caucalis nodosa*; *C. daucoides*; *C. scandica* (*Anthriscus vulgaris*); *Hydrocotyle vulgaris*; *Scandix odorata* (*Myrrhis odorata*); \**Linum usitatissimum*; *L. Radiola* (*Radiola linoides*); *Tulipa sylvestris*; \**Leucojum æstivum*; *Convallaria majalis*; *Juncus squarrosus*; *Juncus uliginosus* (*J. supinus*); *J. liniger* (*Luzula multiflora*); *Peplis Portula*; *Epilobium tetragonum*; *E. palustre*; *Erica Tetralix*; †*E. cinerea*; *Vaccinium Myrtillus*; *Polygonum amphibium*; \**P. Fagopyrum*; †*Pyrola media*; \**Saponaria officinalis*; *Chrysosplenium oppositifolium*; \**Stellaria nemorum*; *Arenaria* (*Lepigonum rubrum*); *Sedum Telephium*; *S. acre*; \**S. reflexum*; *Cerastium semidecandrum*; *Cratægus* (*Pyrus*) *tormalis*; *Spiræa Filipendula*; *Rosa rubiginosa*; \**Delphinium Consolida*; *Aquilegia vulgaris*; *Helleborus viridis*; *H. foetidus*; *Thalictrum flavum*; *Marrubium vulgare*; *Mentha gentilis*; \**Leonorus Cardiacæ*; *Antirrhinum* (*Linaria*) *Elatine*; *A. (Linaria) spurium*; \**A. majus*; *Digitalis purpurea*; \**Cochlearia Armoracia*; *Cardamine flexuosa*; *Sisymbrium Sophia*; *S. (Diploaxis) tenuifolia*; *Sinapis* (*Brassica*) *alba*; *S. (Brassica) nigra*; *S. (Sisymbrium) Thaliana*; *Brassica Napus*; \**Erodium moschatum*; *Geranium sylvaticum*? *Anthyllis Vulneraria*; †*Genista anglica*; *Vicia lathyroides*; *Lathyrus Nissolia*; *L. Aphaca*; *Onobrychis sativa*; *Trifolium medium*; *T. arvense*; *T. fragiferum*; *Melilotus officinalis*; \**Medicago sativa*; *Astragalus glycyphyllos*; *Tragopogon pratensis*; *Hieracium sylvaticum*; *H. boreale*; *Anthemis arvensis*; †*Lactuca virosa*; *L. muralis*; *Onopordum Acanthium*; *Erigeron acre*; \**Tussilago hybrida*; *Inula Helenium*; †*Orchis conopsea*; *Ophrys* (*Neottia*) *Nidus-avis*; *Satyrion* (*Habenaria*) *viride*; *Serapias* (*Cephalanthera*) *ensifolia*; *S. longifolia* (*Epipactis palustris*); *Zannichellia palustris*; *Sparganium simplex*; *Carex intermedia*; *C. divulsa*; *C. flava*; *C. distans*? *C. Pseudo-Cyperus*; *C. stricta*; *Myriophyllum spicatum*; †*Quercus sessiliflora*; \**Fagus Castanea* (*Castanea sativa*); *Carpinus Betulus*; *Salix aquaticus*; *S. Helix*; \**Taxus baccata*; *Acer Pseudo-platanus*; *Parietaria officinalis*; *Equisetum limosum*; *E. palustre*; †*Aspidium* (*Lastrea*) *Thelypteris*; *Asplenium Ruta-muraria*; *A. trichomanis*; *Scolopendrium Ceterach* (*Ceterach officinarum*); *Pilularia globulifera*; †*Lycopodium clavatum*; †*L. Selago*; *Salix Lambertiana*; *Rosa tomentosa*; \**Ribes Grossularia*; *Arundo Calamagrostis* (*Calamagrostis lanceolata*).

The plants in the foregoing list marked by an asterisk (thus \*) are mere alien or casual plants in this county; those distinguished thus †, were recorded by the Rev. W. T. Bree, of Allesley; and those distinguished thus ‡, were recorded by that earnest worker in Warwickshire Botany, the Rev. W. Rufford.

In 1820 Perry published his excellent work, "*Plantæ Varvicenses Selectæ*," in which are recorded 379 of the rarer Flowering Plants, Ferns, and Fern Allies growing in Warwickshire. These notes were collected from various sources, such as Ray, Turner, Withering, Purton, &c. This is the first work that had at that time been published which was specially devoted to Warwickshire botany. It,

however, only gives the rarer plants, but its author contemplated giving a complete flora on a future occasion. He had evidently made some preparation for this work, and left behind him MS. in which this was to an extent carried out. This has been lost or mislaid, and I have not been able to get access to it. I have, however, Mr. Perry's own interleaved copy of the "Plantæ," in which are many additional notes in Perry's handwriting, and to these allusion will be made further on. Of the 379 plants enumerated by Perry in the "Plantæ" the following are additional to past records :—

\**Apera Spica-venti*; *Lemna gibba*; *Phalaris arundinacea*; *Poa nemoralis*; *Cynosurus cristatus*; *Galium Mollugo*; *Potamogeton pectinatus*; \**Campanula Rapunculus*; *Viola odorata* (var. *incarnata*); *Stellaria uliginosa*; *Ribes rubrum*; *Chenopodium hybridum*; *C. acutifolium*; *Narcissus biflorus*; *Rumex sanguineus*; *Potentilla argentea*; *Clematis Vitalba*; *Ranunculus bulbosus* (variety); *R. parviflorus*; *Linaria minor*; *Cheiranthus fruticosus* (\**C. Cheiri*); *Erodium cicutarium*; *Polygala vulgaris*; *Equisetum fluviatile*; *E. maximum*; *Ophioglossum vulgatum*.

Those marked by an asterisk (\*) are aliens.

In 1821 Purton published "An Appendix to the Midland Flora: comprising also Corrections and Additions referring to the two former volumes; and Occasional Observations tending to Elucidate the Study of the British Fungi; concluding with a Generic and Specific Index to the whole work, and a General Index of Synonyms. Embellished with thirty coloured engravings." This forms Vol. III., and is by far the most valuable portion of this classical work. In this volume most of the records are given by the Rev. W. T. Bree, the following being additions :—

†*Rosa sepium*; *R. mollis*; †*R. Sabini*; †*R. Doniana*; *Mentha sylvestris*; †*M. gracilis*; *Ulex nanus* (U. *Gallii*); †*Ceratophyllum demersum*; †*Salix pentandra*; †*S. repens*; *S. triandra*; *S. amygdalina*; *S. mollissima* (*S. Smithiana*); *S. aurita*; *Aspidium* (*Athyrium*) *Flix-fœmina*; *A. dilatata*; \**Oenothera biennis*; *Hypericum Androsæmum*; †*Galium erectum*.

In the interleaved copy of Perry's "Plantæ Varvicensæ Selectæ," already referred to, are many MS. notes, dating from about 1823 to 1839, many of them initialed "W. W. B.," whom I find to have been a Mr. W. W. Baynes, who probably lived in Leamington for some years. Of this industrious recorder I can obtain no information. His observations appear to have been mostly from the immediate neighbourhood of Leamington.

Among the MS. notes, some of which are copied from Baxter's "Phænogamous Botany," the following are in addition to former records :—

*Scirpus fluitans*; \**Phalaris canariensis*; *Aira præcox*; *Bromus racemosus*; *Avena pubescens*; *Chenopodium Bonus-Henricus*; *Apium graveolens*; *Epilobium montanum*, flore albo; *Geum intermedium*; *Geranium phæum*; *G. pusillum*; *Trifolium filiforme*; *T. subterraneum*; *Scabiosa columbaria*; *Senecio aquaticus*; *Carex remota*; *C. Oederi* (*C. flava* var. *minor*); *C. dioica*; *Poterium Sanguisorbum*; *Prunus Avium*.

In 1828 Loudon commenced publishing his instructive "Magazine of Natural History," in which were a series of articles entitled "Natural History in the English Counties." Under this heading, Vol. I., page 392, the Rev. W. T. Bree, Rector of Allesley, contributed "A List of Plants found in Warwickshire, varying with White Flowers."

Here it will be convenient to give a short biographical notice of one of the truest and most ardent of our Warwickshire botanists. This I have taken from "Warwickshire Worthies," by the Rev. F. L. Colville. "William Thomas Bree, Rector of Allesley (only son of the Rev. William Bree, Rector also of Allesley), was born at Coleshill in 1787, and became well known to the scientific world as a naturalist and an author. He was educated at the Grammar School, Warwick, from whence he passed to Oriel College, Oxford, where, in 1808, he took a second

class in 'Literæ Humaniores.' After entering holy orders he held the curacy of Bickenhill, and at his father's death succeeded as rector of the beautiful parish of Allesley. One who remembers him from earliest childhood speaks of his unvarying kindness, of the interest which he tried to make others feel in the beauties of nature, and of his readiness to satisfy an enquiring mind. For many years he was a frequent contributor to the various magazines and periodical works on natural history. He wrote in 'Loudon's' and the 'Saturday Magazine'; in the 'Zoologist,' and the 'Phytologist.' While loving natural history in all its branches. Mr. Bree gave his attention more especially to botany and entomology, and on these subjects he was looked up to as an authority. He was the first botanist to point out that *Lastrea rigida* was a British plant, and was one of the first to maintain that *Lastrea recurva* is a distinct species and not a mere variety of *L. dilatata*." Mr. Bree also contributed to Watson's "New Botanist's Guide," and was in communication with many of the leading scientific men of his day. He appears to have left no herbarium of any extent behind him. He died in 1863, and was buried in the parish church of Allesley. In his first paper to "Loudon's Magazine" the following are additions to previous records :—

*Scabiosa succisa*; *S. arvensis*; *Viola canina* (probably *V. sylvatica*); *Lychnis Flos-cuculi*; *Scilla nutans*; *Prunella vulgaris*; *Pedicularis palustris*; *Geranium molle*; *G. Robertianum*; *Cnicus lanceolatus*; *C. palustris*; *C. arvensis*; *Serratula tinctoria*; *Orchis Morio*; *O. maculata*; *Solanum Dulcamara*; *Malva sylvestris*.

In the following Vol. II. of "Loudon's Magazine," Perry contributed a paragraph on the white varieties of wild plants he had observed, mostly the same species noticed by Bree, but, in addition to these, we find :—

*Trifolium repens*; *Crepis tectorum* (*C. virens*).

In Vol. III. of the same work, published in 1830, Mr. Bree contributed a further article on "The Rarer Plants found in Warwickshire." This paper appears in the paragraph on "Natural History in the English Counties," pages 162-67, and is a list of 106 flowering plants and ferns, 8 mosses, and 9 fungi. Of the flowering plants, the following are in addition to previous records :—

*Veronica montana*; *Pimpinella magna*; *Epilobium angustifolium*; *Papaver Argemone*; *Geranium pyrenaicum*. Many of the plants recorded in this paper I have myself seen within recent years in the stations indicated.

William Baxter, to whom we owe many new records for Warwickshire plants, was born at Rugby, January 15th, 1787. In 1834 he issued his first volume of "British Phænogamous Botany" or British Flowering Plants, with figures and descriptions of the genera; and this work, which was in six volumes, was published at intervals between this date and 1843. In it are records from the neighbourhood of Rugby, many of which had been recorded as Warwickshire plants by former botanists. In 1813 Mr. Baxter was appointed Curator of the Oxford Botanic Gardens. In 1817 he was elected as an Associate of the Linnean Society. He was a frequent correspondent of Purton, Dr. Greville, Mr. Sabine, Mr. Borrer, and the Rev. A. Bloxam. Mr. Baxter left manuscript notes of many plants he had noticed in the neighbourhood of Rugby; these which had not been elsewhere published were copied for me by Mr. G. C. Druce, F.L.S.; most of these notes were without dates, but were made about 1844-46. Of the plants recorded in his "British Phænogamous Botany," together with the MS. notes referred to above, the following are additional as records for Warwickshire :—

*Ononis spinosa*; *Prunus insititia*; *Prunus Cerasus*; *Pyrus Aria*; *Cratægus Oxyacanthoides*; *Circæa lutetiana*; *Apium graveolens*; *Valeriana officinalis*; *Myosotis versicolor*; *Scrophularia aquatica*; *S. nodosa*; *Mentha hirsuta*; *Thymus Serpyllum*; *Atriplex erecta*; *A. hastata*; *Rumex obtusifolius*; *Fagus sylvatica*; *Populus alba*; *P. tremula*; *Juncus glaucus*; *J. effusus*; *J. conglomeratus*; *Carex pilulifera*; *\*Phalaris canariensis*; *Holcus mollis*; *Agropyron repens*; *Chara fetida*.

Mr. Baxter died in 1871, in his 84th year, highly esteemed both for his moral worth and high botanical reputation.

In 1835 Mr. Hewett Cotterill Watson published his "New Botanist's Guide to the Localities of the Rarer Plants of Britain." Chapter xxiv., which deals with Warwickshire, is compiled partly from Ray, Withering, "The Botanist's Guide," and "Midland Flora," but mainly from a checked catalogue of plants found in Warwickshire by the Rev. W. T. Bree. This is a list of about 180 of the more rare or local plants found in the county. Many of these have been already enumerated, the following, however, are additional records:—

*Cardamine impatiens*; *Nasturtium sylvestre*; *Lepidium Smithii*; *Vicia Bobartii*; *Bryonia dioica*; *Silene pratensis*; *Pastinaca sativa*; *Petroselinum segetum*; *Sison Amomum*; *Athemis nobilis*; *Myosotis cæspitosus*; *Solanum nigrum*; *Lycopus europæus*; *Primula elatior* (*P. caulescens*); *Chenopodium murale*; *C. urbicum*; *Salix vitellina*; *Tamus communis*; *Potamogeton gramineus*; *Alopecurus agrestis*; *Avena fatua*.

In 1837 Mr. Hewett C. Watson issued a second volume of his "New Botanist's Guide," and, in treating of the Warwickshire portion of his subject, had the assistance of that able Warwickshire botanist, the Rev. Andrew Bloxam, M.A., of whom it will be needful to speak again later on. Although in this volume there are several new stations given for rarer plants, the only new records are those of Mr. Bloxam, which are—

*Potamogeton zosterifolius*; *Valeriana dentata*; *Gastridium lendigerum*; *Lotus tenuis*.

In 1837 Mr. William Ick published in the pages of a local journal, "The Analyst," a paper entitled "Remarkable Plants found in the vicinity of Birmingham in the year 1837." This list, which embraces stations in the adjacent counties of Stafford and Worcester, contains records of many plants already recorded for Warwickshire, but those recorded below are additional records.

Mr. Ick was born in the year 1800, at Newport, in Shropshire, where his father carried on the trade of fellmonger. In 1803 the family removed to Birmingham. From a child he was notable for his reserved and studious habits, and from the fear that he might be injured by over-study he was kept from school until nearly nine years of age. After leaving school he was apprenticed to the celebrated firm of Japanners, Jennens and Betteridge, with whom he served his time. In his leisure hours he was fond of sketching flowers, and commenced whilst yet young the study of botany. To a knowledge of this science he also added that of chemistry and geology. Ick was also a proficient linguist, acquiring a considerable knowledge of French and other languages. Like most real students, the day never seemed long enough; and probably a too earnest desire for knowledge caused him to neglect his health, which was always ailing. After an unsuccessful endeavour to start as a bookseller, he became classical tutor at Mr. Kimberley's school at Emscote, near Warwick, where he managed not only to win the esteem of his pupils but also to instil into their minds a love for his favourite studies, geology and botany. In 1833 he left Leamington for Coventry, where he employed his leisure in further increasing his knowledge of the Continental languages and other subjects. He was afterwards made Curator of the Birmingham Philosophical Institute, and during his tenure of office contributed several papers to the Geological Society. His scientific friends appear to have been numerous, and some of them, such as Alfred Jukes, Sir R. Murchison, and Dr. Buckland, were eminent men of science. In 1843 Ick obtained the degree of M.A. and Ph.D. from one of the German universities. At the time of his last illness, in 1844, he was employed in making meteorological observations to supply materials for a paper which was read by Prof. Phillips before the Royal Society. He died September 28th, 1844. The following are the additional plants given in his paper in the "Analyst":—

*Ranunculus Flammula*; *Nuphar lutea*; *Papaver dubium*; *Cardamine pratense*; *Lepidium campestris*; *Silene inflata* (*S. cucubalus*); *Hypericum tetraspermum*; *Ononis repens*; *Valeriana olitoria*; *Achillea Ptarmica*; *Jasione montana*; *Lycopsis arvensis*; *Juncus bufonius*; *Lemna polyrrhiza*.

In the year 1838 Ick contributed a further paper to a well-known Birmingham journal, the *Midland Counties Herald*, giving a long list of plants, among which the following were additions to previous records :—*Arenaria trinervia* ; *Polygonum lapathifolium*.

About 1840 Mr. W. G. Perry published a quarto sheet with the title "Remarkable Plants observed Growing Spontaneously near Leamington and Warwick." This is a record of about 93 species of flowering plants and ferns, containing many records in addition to those given in the "*Plantæ Selectæ*," and evidently compiled from the MS. notes in his own copy of that work. These have already been given.

In 1842 that valuable and interesting journal, "*The Phytologist*," was commenced. Scattered through its pages, sometimes at wide intervals, are several notices of Warwickshire plants. Among the first of these is an account of *Pinguicula vulgaris*, and other plants, from Sutton Coldfield, all of which had, however, been previously recorded. These notices are incidentally given in Vol. I., p. 15. On page 61 occurs a "Note on British Lycopodiæ." From this it will be seen that none of the species formerly recorded by the Rev. W. T. Bree had at that date been seen for many years in the stations given in Purton's "*Midland Flora*." This is signed W. T. Bree, Allesley Rectory, August 12th, 1841. The next paper of importance occurs in Vol. I., p. 261, Art. LXXIV., Varieties, "List of some of the Rarer Plants observed in the neighbourhood of Birmingham," and is signed "Samuel Freeman, 11, Sun Street, Birmingham, October, 1841." Of this botanist I can obtain no information, but am able to testify to the correctness of his records in nearly every instance. The list enumerates about 100 species, but of these the following only are additions :—

*Eleocharis acicularis*, *Aira præcox* ; *Festuca loliacea* ; *Helosciadium inundatum* ; *Ranunculus Lingua* ; *Chrysanthemum segetum* ; and \**Villarsia nymphæoides*.

The last plant is recorded by Freeman from Packington Park, and must have been of recent origin, as it is not recorded by the Countess of Aylesford, nor is it noticed by Withering.

In this volume Mr. Edward Newman commenced the "County Lists of British Ferns and their Allies," and on page 510 we have an account of the distribution of these plants in Warwickshire, given by various local botanists, such as Cameron, Luxford, Bree, W. W. Baynes, Perry, Southall, Murcott, and others. This was the most complete list of the ferns of the county that had then been published, and in it are the following additional records :—

*Polypodium vulgare* ; \**Cystopteris fragilis* ; *Polystichum aculeatum* ; *Lastrea Filix-mas* ; *Equisetum arvense* ; *Athyrium Filix-fœmina* var. *rhæticum*.

In "*The Phytologist*," Vol. II., page 269, is a "Notice of a Few of the Rarer Warwickshire Plants," by Thomas Kirk. Mr. Kirk was, I believe, a native of Warwickshire, and resided for many years at Coventry. He was an ardent botanist, giving attention not alone to the flowering plants and ferns, but also to the mosses of the county. He appears to have published very little, but he corresponded with several of the more prominent botanists of that day, such as Borrer, Babington, Bloxam, and W. G. Perry. To the herbarium of the latter botanist he contributed many of the rarer flowering plants and a collection of mosses. These form a part of the Perry herbarium in the Warwick Museum.

In 1863 Mr. Kirk left England for New Zealand, where he has not only done very excellent work in botanical science, but has also filled an important post under the British Government.

The paper published in Vol. II. of "*The Phytologist*" is dated from Cross Cheeping, September 11th, 1847. In this are many interesting records, some of which I have personally confirmed quite recently. Of these the following are in addition to former records :—

\**Iberis amara* ; \**Oxalis corniculata* ; *Callitriche platycarpa* ; *C. hamulata*, var. *sessile* ; \**Sedum album* ; \**Petroselinum sativum* ; *Wahlenbergia hederacea* ; \**Veronica Buxbaumii* ; \**Physalis Alkekengi* ; *Myosotis sylvatica* ; *Potamogeton rufescens*.

In "The Phytologist," Vol. III., the Rev. W. Thickens, Vicar of Kerseley, near Coventry, communicated a note on a Warwickshire locality for *Botrychium Lunaria* (already noticed) This note is dated July 18th, 1848. On page 300 of this volume is a long and interesting note on new localities for *Botrychium Lunaria*, by the Rev. W. T. Bree, dated August 15th, 1848, and on page 324 a short paper, "Localities for some of the Rarer Plants of Warwickshire," by the Rev. Andrew Bloxam, M.A. Only the following are, however, additional as records for the county :—

*Gnaphalium erectum* (G. supinum); *Juncus diffusus*; *Rubus plicatus*; *R. foliosus*, and *Vicia sylvatica*; and on page 325, under "British Rubi in Yorkshire," we have an incidental note of the following additions to the Warwickshire Flora :—*Rubus affinis*, *R. Borreri*.

Both notes are dated from Twycross, October, 1848.

The Rev. Andrew Bloxam, M.A., was born at Rugby, September 22nd, 1801, and was the fourth son of the Rev. Rich. Rouse Bloxam, one of the masters of Rugby School. His mother was sister to the celebrated painter, Sir Thomas Lawrence. Mr. Bloxam entered Rugby School, 1809, passing from thence to Worcester College, Oxford, in 1820; of this college he afterwards became a Fellow. In the autumn of 1824 he was appointed naturalist on board H.M.S. The Blonde, commanded by Capt. Lord Byron. During the voyage, which lasted over eighteen months, he visited South America and the islands of the Pacific, from which he brought home a large collection of objects, which were deposited in the British Museum. An account of the voyage of The Blonde was afterwards published by Murray, and in an appendix to this Mr. Bloxam gave some interesting notes on the natural history of the Sandwich Islands. After his return he took holy orders and was located, for some years, in Leicestershire, afterwards was curate at Atherstone, and then, about 1840, became Vicar of Twycross, in Leicestershire, where he remained more than thirty years. During his earlier days in Leicestershire he enjoyed the friendship of, and communion with, an ardent and promising botanist, the Rev. Churchill Babington. Mr. Bloxam's researches were truly wide, embracing phænogams, ferns, mosses, lichens, and fungi; in the latter family of plants he did good service, more especially among the Sphæracei, this being signalled by a genus *Bloxamia* being named in his honour, and among the hymenomycetes he had *Agaricus Bloxami* also named after him.

Among the flowering plants, his favourite study was the brambles and the roses. Of these groups he was one of the earliest English students, and so early as 1840 issued fasciculi, which were of great service to beginners in these studies—of this I am able to speak from experience. In conjunction with Mr. Churchill Babington, he furnished a copious list of the flowering plants growing in Charnwood Forest and its neighbourhood to Mr. T. R. Potter for his history of that place. And in conjunction with the Rev. W. H. Coleman he contributed a list of plants for "Potter's History of Leicestershire;" this was never published, and the MS. appears to have been lost. He also communicated to Mr. Hewett C. Watson a "London Catalogue of British Plants," Ed. 2, checked for plants seen within three miles of Atherstone, all in Warwickshire; and a checked London Catalogue, Ed. 2, for plants seen within three miles of Twycross, all in Leicestershire. These were afterwards used by Mr. Watson in compiling his valuable "Topographical Botany." Mr. Bloxam also sent occasional papers to "Loudon's Magazine of Natural History," and, later on, to the "Journal of Botany." He also assisted in the early reports of the Rugby School Natural History Society, and the record of his work in Leicestershire is to be seen on nearly every page of the recently published "Flora of Leicestershire." He married Anne, daughter of the Rev. John Roby, of Coggerstone, in the county of Leicester, and niece to Thomas Purton, the author of the "Midland Flora." I had the pleasure of visiting him in 1871, whilst he was still Vicar of Twycross, and found him a most genial, courteous, and lovable man, full of enthusiasm for his favourite science, and, at the same time, mindful of his

duties to all in his parish, rich and poor alike. About 1872 he became, for a short time, Vicar of Radford Semele, near Leamington, Warwickshire; and was afterwards appointed Rector of Harborough Magna, near Rugby, where he died February 2nd, 1878. I had the pleasure of visiting him at this latter place in 1875, and found him still full of love for botanical pursuits, with quite a host of brambles and roses cultivated in his garden, so that he might watch them more readily, and I shall always remember with pleasure my walk with him in the lanes around his village, where he pointed out the various special Rubi and Roses of that locality.

May 3rd, 1850, the Rev. W. T. Bree communicated to the "Phytologist" a paper "Warwickshire Habitat for *Gagea lutea*," which the Rev. J. Gorle had discovered as far back as 1835. On page 945 of the same volume occurs "A Visit to the Lily Field: or *Narcissus poeticus* in Warwickshire;" and a "Note on *Narcissus lobularis*," by Rev. W. T. Bree, M.A., dated June 14th, 1850.

One of the most promising of field botanists was William Cheshire, who died at Stratford-on-Avon about 1855. He was a working printer, and his knowledge of botany was self-acquired, and appears to have been very good. His attention was given mostly to the district around Stratford-on-Avon, at that time but little known. Now and again, however, longer excursions were made, as we find records of his having visited Coleshill and Itchington Holt. All his excursions were, as I understand, made on foot. Cheshire contributed occasional notes to the earlier volumes of the "Phytologist," and all his plants appear to have been submitted to Mr. Perry, many of them being incorporated in that botanist's herbarium at Warwick, often with only the locality in Cheshire's hand on the ticket, the name being in Perry's hand, so that it seems evident that Perry named many of his plants. Cheshire did excellent work in the county, the following being new as records:—

*Raphanus Raphanistrum*; *Prunus Padus*; *Agrimonia odorata*; *Arctium intermedium*; *Pimpinella Saxifraga*; *Myosotis repens*; and *Habenaria bifolia*.

I believe he was under thirty years of age when he died.

About 1858 Mr. Thomas Kirk communicated to Mr. Hewett C. Watson a "London Catalogue of British Plants," Ed. 5, checked for plants seen in Warwickshire, together with MS. and specimens. Although this record was not published in "Topographical Botany" till 1873, it is only justice to an indefatigable botanist that his records should be noticed in this sequence. Beside the records from Bree, Bloxam, and Kirk, Mr. Watson also received specimens and MS. communications from Mrs. Russell, of Kenilworth (formerly Anna Worsley), Dr. Lloyd, of Warwick, and in 1870 the present writer. Many of these records given in "Topographical Botany" had already been recorded in the pages of Withering, Purton, Perry, &c., and have been given in proper sequence in the foregoing pages. The following, however, are additional as records for the county:—

*Ranunculus Lenormandi*; *R. auricomus*; *R. arvensis*; *Fumaria muralis*; *Senebiera Coronopus*; *Viola Reichenbachiana*; *Silene anglica*; *Lychnis alba*; *Trifolium scabrum*; *Circeæ lutetiana*; *Anthemis cotula*; *Picris echinoides*; *Crepis biennis*; *Hieracium tridentatum*; *Leontodon hirtum*; *Artemesia Absinthium*; *Taraxacum palustre*; *Pyrola minor*; *Primula veris*; *Verbascum Thapsus*; *Scrophularia Ehrharti* (*S. umbrosa*, *Dum.*); *Linaria repens*; *Stachys ambigua*; *Origanum vulgare*; *Atriplex deltoidea*; *Taxus baccata*; *Rumex acutus*; *Epipactis violacea*; *Allium vineale*; *Potamogeton mucronatus* (*P. Friesii*); *Carex muricata*; *Koehleria cristatus*; *Festuca Myurus*; *Bromus erectus*, *B. commutatus*; *Glyceria plicata*.

Beside these, specimens of other noticeable plants were sent by Kirk to the herbaria of Borrer and Babington. These have been given in the "Flora" in due sequence.

March 23rd, 1867, the Rugby School Natural History Society commenced, under the presidency of an able botanist and well-skilled leader, the Rev. F. E. Kitchener, who for several years—1867 to 1874—guided the work of this society.

The work which this society set itself is stated in the first volume of proceedings, and has been fully and ably carried out. From the first they have published yearly reports, good, and improving year by year, and a complete set of these is a valuable repertory of botanical, archaeological, and other scientific information. In the first report, that for 1868, is a register of plants found around Rugby, which I have found valuable as affording me the first localised report of many of our commoner species, and from many other of the reports I have received considerable assistance. In 1876 a separate pamphlet was published, under the heading of "Register of Plants found within Ten Miles of Rugby," in which we have the flowering dates from 1871-1875, together with the earliest and mean date, and years in which these observations have been made. This register concludes with a long list of rare and local plants, and is quoted in these pages as *Rugby Sch. Rep.*, 1876. This valuable pamphlet was published under the editorship of two enthusiastic botanists, L. Cumming and H. W. Trott. The work of this society has been good, continuous, and well sustained. Its earlier botanical work was done by the Rev. F. E. Kitchener, H. C. L. Reader, T. N. Hutchinson, P. Mahoney, E. Cleminshaw, and others. Later on came Mr. H. W. Trott, enthusiastic and reliable; then one of the masters, Mr. L. Cumming; and in more recent years the Rev. W. O. Wait has shown the same zeal and energy that signalled the earlier workers of this society.

In the "Botanical Exchange Club Report" for 1866, Mr. Henry Bromwich records two or three rare plants, such as *Galium erectum* and *Stachys ambigua*. In the Report for 1867 a new record, *Papaver Lecoqii*; and in the Report for 1868 *Ranunculus pseudo-fluitans*, \**Euphorbia Esula*, and \**Petasites albus*.

In 1869 was published "The British Rubi, an attempt to discriminate the species of *Rubus* known to inhabit the British Isles." By Charles Cardale Babington, M.A., F.R.S. In this appear records from Warwickshire by the Rev. Andrew Bloxam, Thomas Kirk, and W. Mathews, M.A.; those in addition to former records being:—

*Rubus suberectus*; *R. plicatus*; *R. Lindleyanus*; *R. discolor*; *R. thyrsoideus*; *R. leucostachys*; *R. Grabowskii*; *R. Colemanii*; *R. villicaulis*; *R. mucronulatus*; *R. Borreri*; *R. Bloxamii*; *R. hystrix*; *R. scaber*; *R. fusco-ater*; *R. Guntheri*; *R. foliosus*; *R. glandulosus*; *R. Balfourianus*.

On March 18th in the same year, Mr. J. G. Baker, F.R.S., F.L.S., read before the Linnean Society "A Monograph of the British Roses." In this there are two additional records from the Rev. W. T. Bree and Henry Bromwich, namely *Rosa sepium* and *R. gallicoides*.

In May, 1870, the Hon. T. J. Lester Warren published in the "Journal of Botany," a paper "On the Dumetorum Group of Rubi in Britain," in which occurs an additional record from Mr. Bloxam, *Rubus tuberculatus*.

In 1870 the Birmingham Natural History Society published the first part of their "Proceedings," to which was added "A Classified List of the Flora of the District," and "Flowering Plants and Ferns Indigenous to the Neighbourhood around Birmingham." This list was compiled by the present writer mainly from his own notes, and comprises records from the neighbouring counties of Stafford, Shropshire, and Worcestershire. The commoner plants in these lists were not localised, but all of them had been observed in Warwickshire localities. Of these the following were at that time additional records:—

*Ranunculus heterophyllus*; *R. Ficaria*; *Viola tricolor*; *Lychnis Githago*; *Stellaria aquatica*; *S. umbrosa*; *Sagina ciliata*; *S. procumbens*; *Prunus communis*; *Rubus rhamnifolius*; *Ceanothe crocata*; *Angelica sylvestris*; *Caucalis Anthriscus*; *Leontodon autumnalis*; *Crepis paludosa*; *Hypochaeris radicata*; *Myosotis versicolor*; *Euphrasia officinalis*; *Mentha sativa*; *Rumex conglomeratus*; *R. obtusifolius*; *Betula alba*; *B. glutinosa*; *Alnus glutinosa*; *Juncus glaucus*; *Potamogeton natans*; *P. perfoliatus*; *Carex vulpina*; *C. ovalis*; *C. Goodenowii*; *C. pilulifera*; *C. præcox*; *C. sylvatica*; *C. riparia*; *Alopecurus geniculatus*; *Agrostis*

canina; *A. alba*; *A. vulgaris*; *Deschampsia cespitosa*; *Arrhenatherum avenaceum*; *Briza media*; *Festuca ovina*; *F. rubra*; *F. elatior*; *Bromus erectus*; *B. sterilis*; *B. mollis*; *Agropyron caninum*; *Hordeum murinum*.

In 1872 the second part of the "Proceedings of the Birmingham Natural History Society" was published, in which were the following additions:—

*Ranunculus trichophyllus*; *Viola canina* var. *flavicornis*; *Rubus fissus*; *R. amplificatus*; *R. diversifolius*; *R. atro-rubens*; *R. concinnus*; *Rosa dumalis*; *R. dumetorum*; *R. tomentella*; *R. Reuteri*; *R. verticillacantha*; *Mentha rotundifolia*; *Lemna minor*; *Eleocharis multicaulis*; *Carex lævigata*.

The "Reports of the Rugby School Natural History Society," 1870-71, give an additional record, *Veronica triphyllos*. This is an eastern county plant, and merely a casual in Warwickshire.

In the "Journal of Botany" for 1871 a short note is given on "Plants near Birmingham," by the writer.

In the "Exchange Club Report" for 1871 Henry Bromwich records a peculiar form of *Rosa arvensis* var. *setosa*.

In 1872 the "Rugby School Natural History Society's Annual Report" contains the following addition to former records:—

*Lamium amplexicaule* var. *intermedium*; this, however, is an ambiguity, probably a small-flowered state of *L. amplexicaule*.

In the "Journal of Botany" for 1872, "Notes respecting some Birmingham Plants" contain reference to Warwickshire plants, all of which have been recorded previously.

In the same journal, 1874, the present writer published "The Moss Flora of Warwickshire," and a note on *Tortula sinuosa* as a Warwickshire plant.

In 1874 the Warwick Natural History and Archaeological Society published in their Proceedings "A Catalogue of Plants collected in Warwickshire," compiled by the Rev. J. R. Young and R. Baker, M.D. This list is a record of the observations of the compilers, together with the Rev. A. Bloxam, Henry Bromwich, the Rugby School Society, and myself. Although a long list, containing records of many rare and interesting plants, none of these are additional. This list was afterwards published as a separate work, which is quoted in the foregoing pages as *Y. and B.*

In the "Report of the Botanical Exchange Club" for 1874 there are several records of rare Warwickshire plants, of which the following by the writer were new:—

*Carex Ehrhartiana*; *C. axillaris*.

The "Rugby School Natural History Society's Report" for 1875 contains a long list of plants, amongst which the following are new records:—

\**Linum angustifolium*; \**Ruscus aculeatus*; *Rosa arvensis*; the two first being casuals or planted.

In the "Exchange Club Report" for 1875 the following by the writer are additions:—

*Rubus Schlechtendalii*; *Carex elongata*.

And by Mr. Bromwich:—

*Rubus Leesii*; *Salix Laurina*; *S. Andersoniana*.

In the "Exchange Club Report" for 1876 the following new records are given by Mr. Bromwich and the writer:—

*Ranunculus truncatus*; *Rubus Bagnallii*; *Rosa obtusifolius*; *R. coriifolius*; *R. marginata*; *Galium Bakerii*; *Mentha Cardiaca*; *Salix Lambertiana*; *S. cotinifolia*; *S. Damascena*; *Zannichellia brachystema*.

In the "Record Club Report" for 1876 are the following by the writer :—

*Rubus Salteri*; *R. Radula*; *R. spinosissima*.

In 1876 the Rugby School Society issued "A Register of Plants," edited by L. Cumming and H. W. Trott, in which is also given a long list of rare and local plants, only one of which, *Hesperis matronalis*, an alien, is additional.

In the "Botanical Record Club Report" for 1877-8 the following were given by the writer :—

*Rubus ramosus*; *R. rotundifolius*; *R. heteroclitus*; *Rosa senticosa*; *Calamintha Briggsii*.

In 1876 the Birmingham Natural History Society published "Notes on Sutton Park: Its Flowering Plants, Ferns, and Mosses; to which is added the Roses and Brambles of Warwickshire," by James E. Bagnall, which was the first Warwickshire pamphlet in which both rare and common plants were enumerated and localised, of which the following were additional to past records:—

*Sisymbrium officinale*; \**Melilotus arvensis*; *Rubus rosaceus*; *Fragaria vesca*; *Galium Witheringii*; *Taraxacum erythrospermum*; *T. lævigatum*; *Utricularia minor*; *Scleranthus annuus*; *Chenopodium candicans*; *Atriplex erecta*; *A. hastata*; *Scirpus pauciflorus*; *Carex Kochiana*. This paper is quoted in these pages as *The Flora of Sutton Park*.

In the "Botanical Exchange Club Report" are a few records of critical plants by the writer, all of which had been recorded elsewhere.

In this year, 1876, an accomplished botanist, Mrs. Anna Russell died. Mrs. Russell was the daughter of the late Mr. Phillip John Worsley, of Bristol, and was born at Arno's Vale, Bristol, November, 1807. In early life she developed a taste for natural history and botanical pursuits, and also for the use of the brush and pencil, the latter talent being afterwards put to good use when studying the British fungi. At first her attention was devoted to entomology, but later on botany became her favourite study. In 1844 she married the late Mr. Frederick Russell, of Kenilworth (whose brother, Dr. James Russell, was formerly a well-known and eminent Birmingham physician), and they lived for some years at Brislington, near Bristol, subsequently, however, removing to Kenilworth. Here Mrs. Russell resided until her death. November 11th, 1876, devoting herself principally to the study of flowering plants and fungi. Her knowledge of British plants was very good, and she is frequently mentioned in Mr. Hewett C. Wilson's "New Botanist's Guide and Topographical Botany" as a communicator of notes from various parts of Britain, ranging from Cornwall to Lanark, and in his notice of the authorities to "Topographical Botany" he thus alludes to this lady:—"My botanical correspondence with Mrs. Russell, and interchanges of specimens, have been carried on through a long series of years; and, on my side, with ever increasing satisfaction." For many years she studied carefully the higher fungi, and made a large series of highly finished drawings. These, amounting to over 730, she left to the botanical department of the British Museum. Of them the Rev. W. W. Newbould, with his characteristic patience, sent me a full account, and, as will be seen in the account of the "Warwickshire Fungi," her records from Warwickshire were very extensive. At her death, her herbarium and her collection of British Birds' Eggs were bequeathed to the Birmingham and Midland Institute. Beside her notes and correspondence with Mr. H. C. Watson, she also communicated occasional notes to "The Phytologist," and in 1839 she published a pamphlet of some thirty-nine pages on the "Flora of Newbury."

In 1878, in Vol. I. of the "Midland Naturalist," in a paper, "The Distribution of the Genus *Rosa* in Warwickshire," by J. E. Bagnall, is an enumeration of the species, varieties, and forms, many of which were here recorded for the first time. This list is a compilation from the observations of the Rev. Andrew Bloxam, Henry Bromwich, and the writer. In the same volume, page 281, is a note on "*Rosa latebrosa* in Warwickshire," by the writer, and "Notes on the Flora of Napton," by H. W. Trott, Rugby.

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In the "Journal of Botany," 1878, Prof. Babington published a valuable series of "Notes on Rubi," in which several Warwickshire Rubi are noticed.

In the "Exchange Club Report" for 1879 are records of several local and rare plants by Henry Bromwich, Charles Bailey, and the writer.

In the "Botanical Record Club Report," 1878, there are records from Charles Bailey and the writer.

In the "Midland Naturalist" for 1879 and 1880, Vols. II. and III., was published "The Cryptogamic Flora of Warwickshire," by James E. Bagnall, being an account of the Mosses and Hepatics of that county.

In the "Rugby School Report" for 1880, in the list of plants for the year, the following is an additional record :—

*Primula caulescens.*

In the "Exchange Club Report" for 1880 are records by the writer and H. Bromwich, the only additional one being :—

*Mentha gracilis* var. *Cardiaca.*

In the "Journal of Botany" for 1880, Messrs. H. and J. Groves published their valuable "Review of the British Characeæ," in which the following new records for Warwickshire are given :—

*Chara fragilis*; *C. Hedwigii*; *C. vulgaris*; *C. crassicaulis*; *Nitella flexilis.*

In the same journal for 1881, under "Notes on British Characeæ," H. and J. Groves also record for this county :—

*Chara vulgaris* var. *papillata*, and *Nitella opaca.*

In the "Midland Naturalist" for 1881, Vol. IV., was commenced "The Flora of Warwickshire : an Account of the Flowering Plants and Ferns of the County of Warwick," by James E. Bagnall, and incidental records of Warwickshire plants in the reports of the Birmingham Natural History Society.

In the "Botanical Exchange Club Report," Henry Bromwich and the writer record rare Warwickshire plants.

In 1882, in the "Midland Naturalist," Vol. V., Mr. W. B. Grove, B.A., published his valuable paper on "Myxomycetes," in which Warwickshire stations are given; also "Fungi of the Neighbourhood of Birmingham." The writer also continued his "Flora of Warwickshire," and contributed notes on "Mosses New to Warwickshire;" "*Silene anglica*;" "Warwickshire Grasses;" and "*Dicranum montanum*."

In the "Journal of Botany" for 1882 the following appear :—"On *Agrostis nigra*," and "Notes on the Rubi of Warwickshire," both by J. E. Bagnall.

In the "Botanical Exchange Club Reports" are also records of Warwickshire plants, by H. Bromwich and the writer. In "Spennel's Warwick Directory," 1882, are lists of plants found in the neighbourhood of Leamington, by H. Bromwich.

In 1883, in the "Midland Naturalist," Vol. VI., Mr. W. B. Grove, B.A., contributed papers and notes on "Fungi from near Birmingham," "Fungi of the Neighbourhood of Birmingham," "Mycological Notes," and "Nomadic Fungi," in all of which are Warwickshire records. The writer also continued his "Flora of Warwickshire."

In the "Botanical Exchange Club Report" are also Warwickshire records by H. Bromwich and the writer.

In 1884, in the "Midland Naturalist," Mr. W. B. Grove, B.A., published his valuable monograph of "*The Pilobolidae*," and notes on new British fungi, giving Warwickshire stations. The writer also continued his "Flora of Warwickshire," and contributed a note on "*A Fungus Foray in the Middleton District*."

In 1884 the Rev. Canon Young, M.A., died. He was for thirty years Rector of Whitnash, near Warwick, an ardent botanist, and a foremost member of the Warwickshire Natural History Society. Besides the list already mentioned, Canon Young appears to have published little. He was about 70 years old when he died.

In the following year, 1885, the friend and coadjutor of Canon Young, Dr. Robert Baker, died. Dr. Baker practised as a surgeon in Birmingham for many years; afterwards he removed to Leamington, where he remained till his death. During his later years he took an earnest interest in Botany, and was a valued member of the Warwickshire Natural History Society. He was about 61 years old when he died. The only botanical work published by him was the list of plants already mentioned.

In 1885, in the "Midland Naturalist," Mr. W. B. Grove, B.A., contributed "New British Fungi;" the writer, "Additions to the Flora of Sutton Park" and "Notes on the Anker Valley."

In the "Botanical Exchange Club Reports" for 1885 are records by H. Bromwich and the writer.

In 1886, in the "Midland Naturalist," Mr. W. B. Grove, B.A., contributed "Notes on the Flora of Warwickshire," "New British Fungi," "The Boleti of the Birmingham District," and the writer "Notes on the Anker Valley and its Flora" and "A Half-day's Ramble in the Arrow District." In this year Mr. Druce's "Flora of Oxfordshire" was published, and throughout the volume there are frequent references to Warwickshire plants.

In 1887, in the "Midland Naturalist," the writer contributed a note "On a New British Moss," and one to the "Journal of Botany" on "*Dicranum undulatum*, Ehrh." In the "Exchange Club Report" were also "Notes on Warwickshire Plants," from H. Bromwich and the writer.

In 1888, in the "Midland Naturalist," the writer contributed a paper on "The Stour Valley and its Flora," the only new plants enumerated being *Tolepella glomerata* and some new mosses.

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## ADDITIONS, CORRECTIONS, &amp;c.\*

- p. 9, line 35, omit Gaydon, *Bolton King*.  
 p. 15, line 3, add 5 before Leam.  
 p. 27, after line 31 add *Isatis tinctoria*, L. Casual near Whitnash, *Brom*.  
 p. 49, under *Geranium columbinum*, Linn., add 5. LEAM. Offchurch Heath.  
 p. 82, after line 44 add *Rubus Bloxamiana*, Coleman. Native. Banks and hedges. Rare. S. August-September. 3. ANKER. Ansley Coalfield; banks near Hartshill; near Austrey; near Wolvey. For a full account of this plant see "Botanical Exchange Club Report," 1890, pages 255-56.  
 p. 142, under *Gnaphalium sylvaticum*, Linn., add Baddesley Common, *Elliott*!  
 p. 226, under *Daphne Laureola*, Linn., add 1. TAME. Near Arley, *Elliott*.  
 p. 249, under *Habenaria conopsea*, Benth., add 1. TAME. Hoare Park, near Shustoke, *Elliott*.  
 p. 320, line 1, for *Lastræa* read *Lastrea*; also headlines of pages 320, 321, 322. This spelling is copied from "London Catalogue of British Plants," 8th Edition, but is incorrect, I think.  
 The following Lichens, in addition to those recorded on pages 385-86, have been found by Mr. W. H. Wilkinson :—*Cladonia pyxidata* var. *decorticata* (*Flk.*); *Ramalina scopulorum* var. *sub-farinacea* (*Nyl.*); *Platysma sæpincola* (*Ehrh.*); *Parmelia physodes* var. *recurva* (*Leight*); *P. physodes* var. *labrosa* (*Ach.*); *P. saxatilis* f. *sulcata* (*Tayl.*); *P. saxatilis* f. *furfuracea* (*Schaer.*); *Squamaria crassa* (*Huds.*); *Placodium candicans* (*Dicks.*); *Lecanora subfusca* f. *gangalea* (*Ach.*); *L. subfusca* f. *atrynea* (*Ach.*); *L. phlogina* (*Ach.*); *Lecidea decolorans* (*Flk.*); *L. uliginosa* (*Schrad.*); *L. myriocarpa* f. *chloropolia* (*Fr.*)  
 p. 410, under *Ag. erebius*, *Fr.*, add Corley, *Adams*.  
 p. 423, under *Ag. gracilis*, *Fr.*, add Shilton Lane, *Adams*.  
 p. 425, after line 23 add *Coprinus alternatus*, *Fr.*, Lady Adams's gardens, Ansty, *Adams*.  
 p. 426, under *Coprinus ephemerus* add Ansty, *Adams*.  
 p. 432, under *Gomphidius gracilis*, *B. et Br.*, add Hopsford, *Adams*.  
 p. 433, after line 30 add *H. lætus*, *Pers.*, Corley, *Adams*.  
 p. 441, under *Russula ochroleuca*, *Fr.*, add Combe, *Adams*.  
 p. 442, under *Russula nitida*, *Fr.*, add Ansty, *Adams*.  
 p. 444, after last line add *M. insititius*, *Fr.*, Barnacle Lane, Brinklow, *Adams*.

\* It is only just that I should state that none of the above corrections or omissions are due to the printer; but are either omissions of my own or notes of new localities, &c., received whilst this work has been passing through the press.

J. E. B.

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Weld .. ..	28	Wood Hyacinth .. ..	255	lehem .. ..	256
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TURNER, JAMES, F.L.S., Merton Villa, Kingswood Road, Moseley..	..	..	1
TWIGG, G. H., Church Road, Moseley	..	..	1
TYE, G. S., 41, Caroline Street, Birmingham	..	..	1
UDALL, JOHN, F.G.S., 21, Summer Hill Terrace, Birmingham	..	..	1
VARDY, Rev. A. R., M.A., King Edward's High School, Birmingham	..	..	1
VINES, Prof. SIDNEY H., M.A., F.L.S., D.C., F.R.S., University of Oxford	..	..	1
WAINWRIGHT, COLBRAN J., 142, Hall Road, Handsworth	..	..	1
WAIT, Rev. W. O., M.A., 8, Bilton Road, Rugby	..	..	2
WARE, Rev. J. MIDDLETON, LL.B., Ullingswick Rectory, Bromyard	..	..	1
WARWICK FREE LIBRARY	..	..	1
WEBB, A. J., Argyle Works, Birmingham	..	..	1
WESLEY, W., and SON, 28, Essex Street, Strand, London	..	..	2
WHITE, Alderman, Edgbaston	..	..	1
WHITE, JAS. WALTER, F.L.S., 52, Royal York Crescent, Clifton, Bristol	..	..	1
WHITEHOUSE, ROBERT S., Leamington..	..	..	1
WHITWELL, WILLIAM, 4, Thurleigh Road, Balham, London, S.W.	..	..	1
WILKINSON, W. H., Pelican Works, Great Hampton Street, Birmingham	..	..	2
WILLMOT, FRANCIS, Wake Green House, Moseley	..	..	1
WILLS, A. W., J.P., Claregate, Wyld Green, near Birmingham	..	..	1
WILLS, W. LEONARD, Sutton Coldfield..	..	..	1
WILSON, JAMES, Bookseller, Birmingham	..	..	3
WOODROFFE, Miss S. M., The Hollies, Burgh Field, Reading	..	..	1
WOODWARD, C. J., B.Sc., F.G.S., 97, Harborne Road, Birmingham	..	..	1
WOOLHOPE NATURALISTS' FIELD CLUB, Hereford	..	..	1



